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Pacific Marine Science Report 78-15

OCEANOGRAPHIC OBSERVATIONS AT OCEAN STATION P

17 October - 7 December 1977

Volume 86

by

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ABSTRACT

Physical, chemical and biological oceanographic observations are made from the weathership at Ocean Weather Station Papa, and between Esquimalt and Station Papa, on a routine continuing basis. Physical oceanography data only are shown, including surface observations and profiles obtained with bottle casts and conductivity-temperature-pressure instruments.

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INTRODUCTION

Canadian operation of Ocean Weather Station P (Latitude 50°00'N, Longitude 145°00'W) was inaugurated in December, 1950. The station is occupied primarily to make meteorological observations of the surface and upper air and to provide an air-sea rescue service. The station is manned by two vessels operated by the Marine Services Branch of the Ministry of Transport. They are the CCGS Vancouver and the CCGS Quadra. Each ship remains on station for a period of six weeks, and is then relieved by the alternate ship, thus maintaining a continuous watch.

Bathythermograph observations have been made at Station P since July 1952. A program of more extensive oceanographic observations commenced in August 1956. This was extended in April 1959, by the addition of a series of oceanographic stations along the route to and from Station P and Swiftsure Bank. These stations are known as Line P stations. The number of stations on Line P has been increased twice and now consists of twelve stations (Fig. 1). Bathythermograph observations and surface salinity sample collections, in addition to being made on Line P oceanographic stations, are also made at odd meridians at 40', i.e. 139°40'W, 141°40'W, etc. These stations are known as Line P BT stations. Data observed prior to 1968 have been indexed by Collins et al (1969).

The present record includes hydrographic, continuously sampled STD and surface salinity and temperature data collected from the CCGS Quadra during the period 17 October to 7 December, 1977.

All physical oceanographic data have been stored by the Canadian Oceanographic Data Centre (CODC), 615 Booth Street, Ottawa, Ontario, Canada. Requests for these data should be directed to CODC.

Biological and productivity data are published in the Manuscript Report series of the Fisheries Research Board of Canada (FRB), Pacific Biological Station, Nanaimo, British Columbia, Canada. Requests for these data should be directed to FRB.

Marine geochemical data are for the Ocean Chemistry Group, Ocean and Aquatic Sciences, Environment Canada, Institute of Ocean Sciences, P.O. Box 6000, Sidney, B.C. V8L 4B2.

PROGRAM OF OBSERVATION FROM CCGS QUADRA, 17 OCTOBER - 7 DECEMBER 1977 (P-77-8) (CODC Ref. No. 15-77-008)

Oceanographic observations were made by Mr. T. Juhasz of Seakem Oceanography Ltd., Victoria, B.C.

En Route to Station P

Line P Stations 1, 2 and 6 were occupied and an STD made to 1500 m or near bottom. Rough weather cancelled hydrocasts and all other STD's.

Samples for salinity, nitrate, nutrient, alkalinity, and total CO_2 were collected from the seawater loop at all whole stations (except for Station 4), with salinity also collected at all half stations (except for Station 12½). Surface bucket salinity samples were collected at Stations 1, 2, and 6. Surface bucket temperatures were taken at Stations 1, 2, and 6.

Station 4 samples were missed because the bridge failed to notify the oceanographer.

The surface temperature recorder, thermosalinograph, PCO_2 system and the EDO depth sounder were run continuously.

A tarball tow was completed at Station 2.

Mechanical BT's or XBT's were taken at all whole and half stations except for Stations 2, 4, 11½, 12, and 12½. These stations were missed due to unsafe conditions on the aft deck.

On Station P

The oceanographic program was carried out as follows:

Physical Oceanography

1) 2 profiles of salinity, temperature and oxygen were obtained from hydrographic casts to 4200 metres.

2) 10 STD profiles to 300 metres and 9 to 1500 metres were obtained.

3) BT's or XBT's were taken every three hours to coincide with meteorological observations, encoded and transmitted according to the IGOSS format.

4) Salinity samples were collected daily at 0000 hrs GMT from the seawater loop. A bucket sample was also collected on 11 occasions.

5) 18 extra STD's were taken as part of the MILE program. They are not included in this report. MILE is the Mixed Layer Experiment program.

Marine Geochemistry

1) Nutrient and salinity samples were collected daily at 0000 hrs GMT from the seawater loop. A 24 hour nutrient series was completed with a sample taken every hour. 2 profiles to 500 m for nutrients and 1 for tritium were obtained. 1 surface bucket sample and 1 rainwater sample were also collected for tritium.

2) Alkalinity and total CO_2 samples were taken every 3 to 5 days from the seawater loop. 2 profiles to 500 m were taken for each.

3) Air CO_2 samples were taken in quadruplicate at weekly intervals on Sundays with extra samples taken on Thursdays.

4) 5 surface tarball tows were completed.

5) 3 seawater C-14 samples were collected from the seawater loop, as well as samples at 0, 100 and 200 metres using the hydro-bios sampler. 5 seawater C-13 and 3 air C-13 samples were collected.

6) PCO_2 carboys were filled approximately every 3 days when the loop system was operational.

7) A profile to 500 m for particulate organic carbon was obtained.

8) 5 samples for hydrocarbons were obtained.

9) 3 samples for Pb^{210} were obtained.

Biological Oceanography

Samples were obtained as follows:

1) 11 - 150 metre vertical plankton hauls.
   2 - 1200 metre vertical plankton hauls.
   5 - subsurface plankton hauls.

2) 5 chlorophyll *a* samples from the seawater loop and 2 profiles to 75 metres were obtained.
3) 2 profiles to 200 metres for each of plant pigment and nitrates were obtained, as well as 5 surface samples for pigments and 6 for nitrates.

4) 5 Secchi disc readings were taken at local noon.

An emergency run was made to Victoria on October 26 for refuelling and relief of sick crew members. Salinity samples were collected every three hours from the seawater loop. The surface temperature recorder, thermosalinograph and PCO_2 system were run continuously. The inbound route was south of Line P. Outbound, the recorders were all run continuously, with salinity samples taken at all whole stations. The ship returned to Station P on November 3.

En Route from Station P

Line P Stations 12 and 6 were occupied and an STD profile made to 1500 m or near bottom. Rough weather cancelled hydrocasts and all other STD's.

Samples for salinity, nitrate, nutrient, alkalinity and total CO_2 were collected from the seawater loop at all whole stations. Salinity samples were also collected at all half stations. Surface bucket temperatures were taken at Stations 12 and 9 to 1.

The surface temperature recorder ran continuously. The thermosalinograph ran continuously until 1840 hrs GMT, December 7, when the seawater loop was shut down. The PCO_2 system ran continuously until Station 3 when the final calibration was made.

Tarball tows were completed at Stations 12 and 6.

Mechanical BT's were taken at Stations 12 and 6 with XBT's taken at all whole and half stations.

Observations for Other Agencies

1) Marine mammal observations were made by the ship's officers for Mr. I. McAskie, Fisheries Research Board of Canada, Pacific Biological Station, Nanaimo, B.C., Canada.

2) Bird observations were made by the ship's officers for Dr. M. Myres, University of Alberta, Calgary, Alberta, Canada and Mr. J. Guiguet, Curator of Birds and Mammals, Provincial Museum, Department of Provincial Secretary and Travel Industry, Victoria, British Columbia, Canada.

3) Air CO_2 samples were taken weekly in duplicate for Scripps Institution of Oceanography, La Jolla, California, U.S.A.

Data were processed for publication by Ms. M. Sainsbury of Seakem Oceanography Ltd., Victoria, B.C.

OBSERVATIONAL PROCEDURES

Observations for salinity, oxygen and temperature from all hydrographic casts, including the surface, were obtained with Niskin water sample bottles equipped with either Richter and Wiese and/or Yoshino Keiki Co. reversing thermometers. Two protected thermometers were used on all bottles and one unprotected thermometer was used on each bottle at depths of 300 m or greater. The accuracy of protected reversing thermometers is believed to be $\pm$ 0.02°C.

The daily surface water temperatures were measured from a bucket sample using a deck thermometer of $\pm$ 0.1°C accuracy. The daily surface salinity samples were obtained from the seawater loop. When the seawater loop was not operational these samples were obtained with a bucket, and are indicated with a 'b' in this data record.

Salinity determinations were made aboard ship with either an Autolab Model 601 Mark III inductive salinometer or a Hytech Model 6220 lab salinometer. Accuracy using duplicated determinations is estimated to be $\pm$ 0.003^{o}/oo.

Depth determinations were made using the "depth difference" method described in the U. S. N. Hydrographic Office Publication No. 607 (1955). Depth estimates have an approximate accuracy of $\pm$ 5 m for depths less than 1000 m, and $\pm$ 0.5% of depth for depths greater than 1000 m.

The dissolved oxygen analyses were done in the shipboard laboratory by a modified Winkler method (Carpenter, 1955).

Line P engine intake continuous temperature on both ships was recorded by a Honeywell Electronik 15 Recorder. The temperature probe is at a depth of approximately 3 metres below the sea surface and the instrument accuracy is believed to be $\pm$ 0.1^{o}C.

Each ship is equipped with a Plessey Model 6600-T thermosalinograph which is used, on Line P, for continuous recording of surface temperatures and salinities from the ship's seawater loop. The temperature probe is mounted at the seawater loop intake (approximately 3 metres below the surface) and the salinity probe and recorder are situated in the dry lab. The accuracy of this instrument is believed to be $\pm$ 0.1^{o}C for temperature and $\pm$ 0.1^{o}/oo for salinity.

STD profiles were taken with a Plessey Model 9006 STD system.

COMPUTATIONS

All hydrographic data were processed with the aid of an IBM 370 computer and a UNIVAC 1100 computer. Reversing thermometer temperature corrections, thermometric depth calculations and accepted depth from the "depth difference" method were computed. Extraneous thermometric depths caused by thermometer malfunctions were automatically edited and replaced. A Calcomp 565 Offline Plotter was used to plot temperature-salinity, and temperature-oxygen diagrams, as well as plots of temperature, salinity, and dissolved oxygen vs $\log_{10}$ depth. These plots were used to check the data for errors.

Missing hydrographic data were obtained using a weighted parabolas interpolation method (Reiniger and Ross, 1968). These data are indicated with an asterisk in this data record.

Data values which we suspect but which we have included in this data record are indicated with a plus. These data have been removed from punch card and magnetic tape records.

Analog records from the salinity-temperature-pressure instrument have been machine digitized, then replotted using the Calcomp plotter.

Digitization was continued until original and computer plotted traces were coincident. Temperature and salinity values were listed at standard pressures; computed from the entire array of digitized data.

The headings for the data listings are explained as follows:

PRESS	is pressure (decibars)
TEMP	is temperature (degrees Celsius)
SAL	is salinity (parts per thousand)
DEPTH	is reported in metres
SIGMA-T	is specific gravity anomaly
SVA	is specific volume anomaly
THETA	is potential temperature (degrees Celsius)
SVA (THETA)	is potential specific volume anomaly
DELTA D	is geopotential anomaly (J/kg)
POT EN	is potential energy in units of 10^8 ergs/cm^2
OXY	is the concentration of dissolved oxygen expressed in millilitres per litre
SOUND	is the velocity of sound in m/sec

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Carpenter, J.H., 1965. The Chesapeake Bay Institute technique for the Winkler dissolved oxygen method. Limnol. and Oceanogr. 10: 141-143.

Collins, C.A., R.L. Tripe, D.A. Healey and J. Joergensen, 1969. The time distribution of serial oceanographic data from the Ocean Station P programme. Fish. Res. Bd. Can. Tech. Rept. No. 106.

MacNeill, M., 1977. A study of anomalous salinity and oxygen values in the deep water at Ocean Station P from 1960-1976 (unpublished manuscript) Pacific Marine Science Report 77-9.

Reiniger, R.F. and C.K. Ross, 1968. A method of interpolation with application to oceanographic data. Deep Sea Res. 15: 185-193.

U.S.N. Hydrographic Office, 1955. Instruction Manual of Oceanographic Observations, Publ. No. 607.

LOG OF HYDROGRAPHIC AND STD OBSERVATIONS

CONSEC. #	POSITION	DATE (GMT)	TIME (GMT)	STD (m)	HYDROCAST (m)	COMMENTS
001	125°33'W	21/10/77	2300	80		Salinity sensor S/N 3028
002	126°00'W	22/10/77	0035	90		
003	130°40'W	22/10/77	1610	1,500		
004	P	02/11/77	2030	1,500		
005	P	03/11/77	1710	1,500		S (over 37)
006I	P	03/11/77	1740		4,200	T, S, O_2 Alkalinity
007	P	04/11/77	1710	1,500		
006II	P	04/11/77	1745		600	T, S, O_2 Alk., Tot. CO_2
008	P	05/11/77	1710	300		
009	P	05/11/77	1730		500	T, S, Nutrients, Tritium
010	P	07/11/77	1710	300		1st MILE pattern
011	P	07/11/77	1730		200	Pigments, nitrates
012	E3	07/11/77	1925	300		Slipring
013	E4	07/11/77	2045	300		problems
014	C1	07/11/77	2225	300		*Change STD
015	W4	08/11/77	0030	300		probe salinity
016	W3	08/11/77	0315	300		sensor S/N 3040
017	P	08/11/77	0520	300		
018	P	08/11/77	1710	1,500		
019I	P	08/11/77	1810		3,000	T, S, alkalinity
020	P	09/11/77	1710	300		
021	P	09/11/77	1730		75	Chlorophyll a
022	P	11/11/77	1710	1,500		
023I	P	11/11/77	1830		0	
023II	P	11/11/77	2000		25	Particulate
023III	P	11/11/77	2130		50	organic carbon
023IV	P	11/11/77	2230		100	T, S
023V	P	11/11/77	2300		250	
023VI	P	11/11/77	2330		500	
024	P	16/11/77	1700	300		2nd MILE pattern
025	E3	16/11/77	1930	300		
026	E4	16/11/77	2100	300		
027	C1	16/11/77	2215	300		
028	W4	17/11/77	0030	300		
029	W3	17/11/77	0200	300		
030	P	17/11/77	0420	300		
031	P	17/11/77	1710	1,500		
019II	P	17/11/77	1930		3,000	T, S, alkalinity

CONSEC. #	POSITION	DATE (GMT)	TIME (GMT)	STD (m)	HYDROCAST (m)	COMMENTS
032	P	22/11/77	1705			Failed
033	P	22/11/77	1800		500	Nutrients, T , S
034	P	22/11/77	1845		200	Nitrates, pigments
035	P	24/11/77	0030	300		
036	P	25/11/77	0030	300		
037	P	27/11/77	0030	1,500		
038	P	27/11/77	0130		75	Chlorophyll a
039	P	27/11/77	1710	1,500		
040I	P	27/11/77	1740		600	T , S , O_2 alkalinity
040II	P	27/11/77	2030		4,200	T , S , O_2 alkalinity
041	P	30/11/77	0030	300		
042	P	30/11/77	1710	300		
043	E3	30/11/77	1915	300		
044	E4	30/11/77	2030	300		
045	C1	30/11/77	2210	300		
046	W4	01/12/77	0010	300		
047	W3	01/12/77	0145	300		
048	P	01/12/77	0245	300		
049	P	01/12/77	1700	300		
050	P	02/12/77	1710	1,500		
051	P	03/12/77	1710	aborted		
052	P	03/12/77	1720	300		
053	142°40'W	05/12/77	0240	1,500		
054	130°40'W	06/12/77	1350	1,500		
055		aborted				

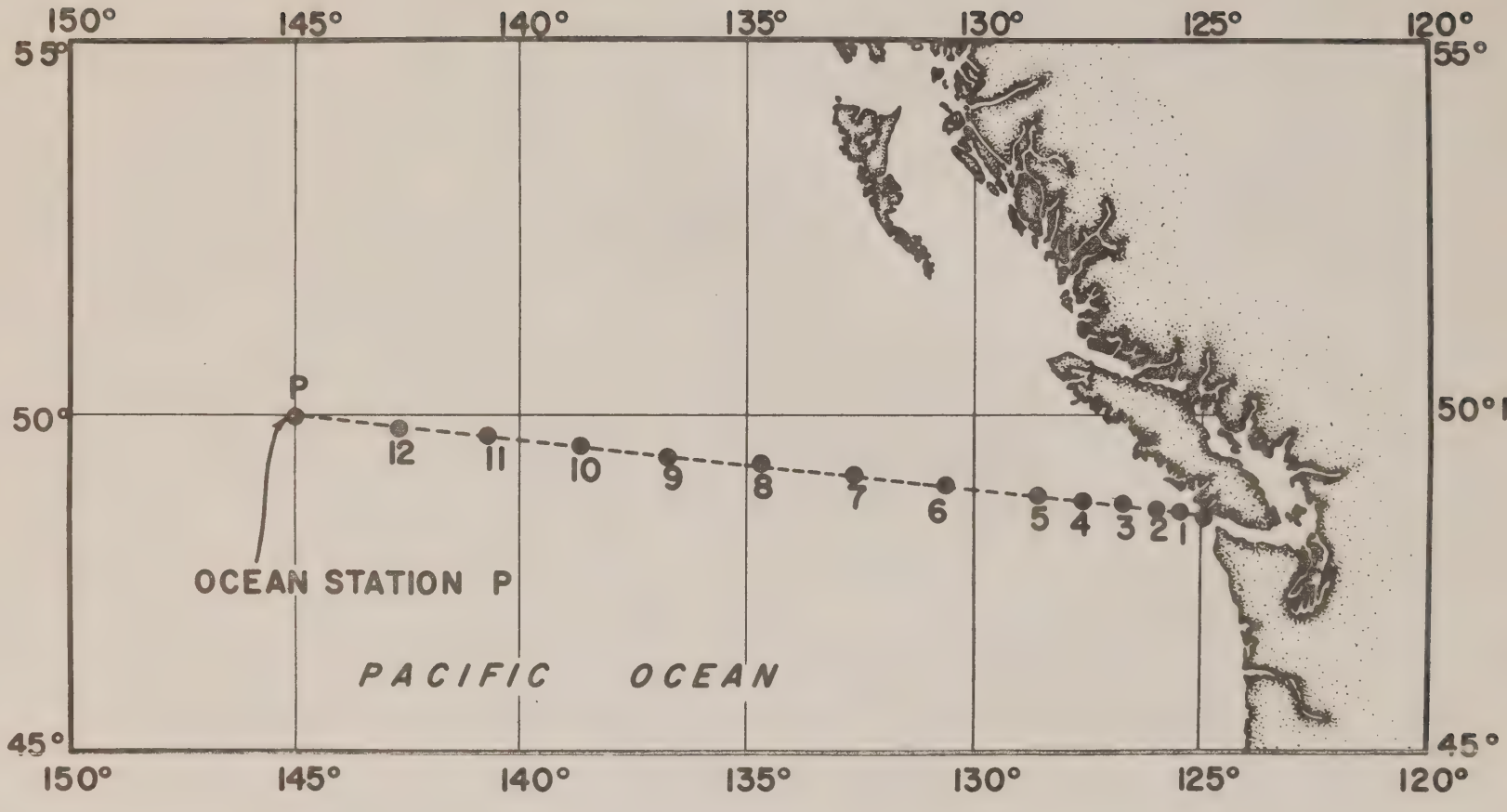


Fig. 1 Chart showing Line P station positions.

Oceanographic Data Obtained on Cruise P-77-8

(CODC Reference No. 15-77-008)

Results of Hydrographic Observations

(P-77-8)

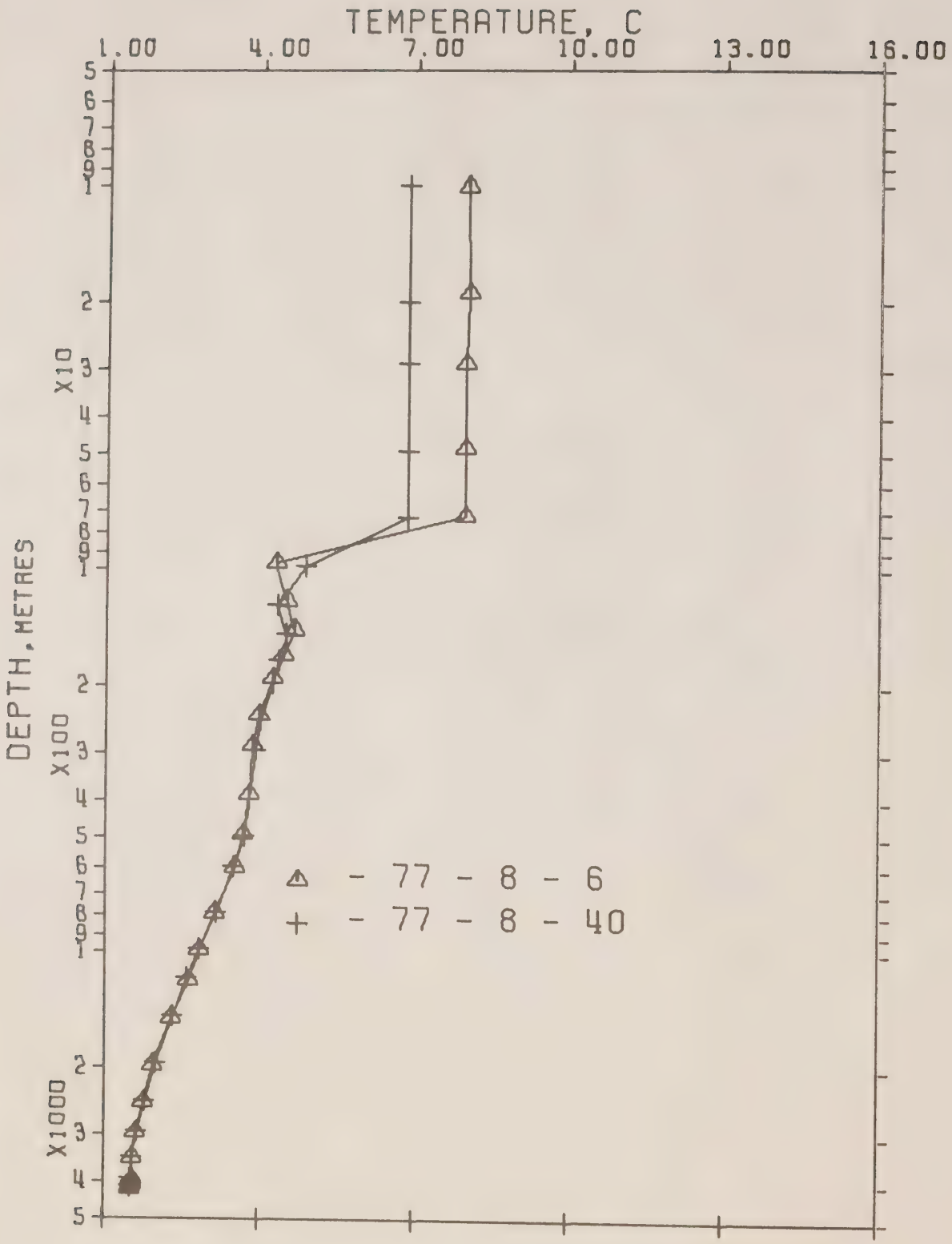


Figure 2. Composite plot of temperature vs $\log_{10}$ depth for Station P. P-77-8.

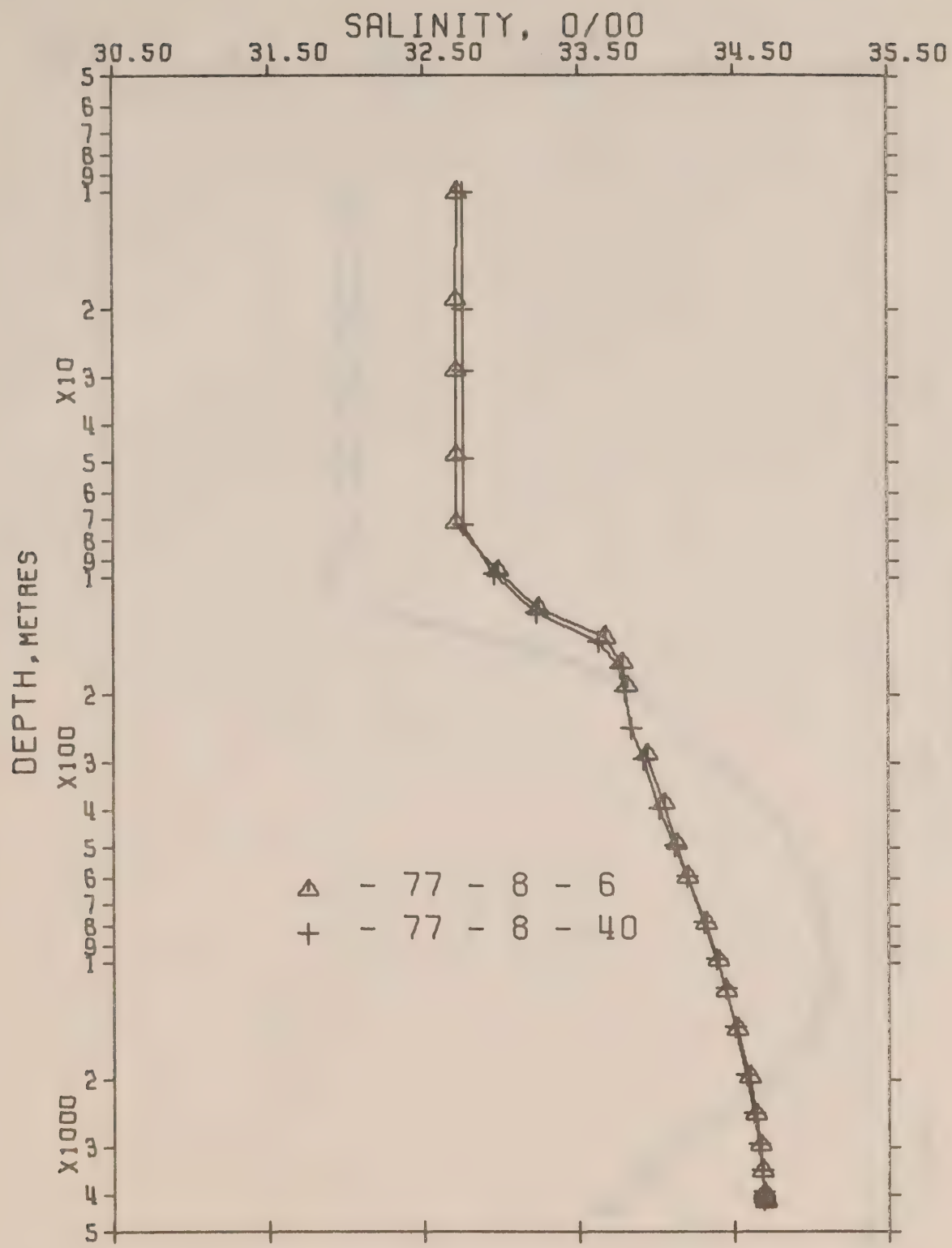


Figure 3. Composite plot of salinity vs $\log_{10}$ depth for Station P. P-77-8.

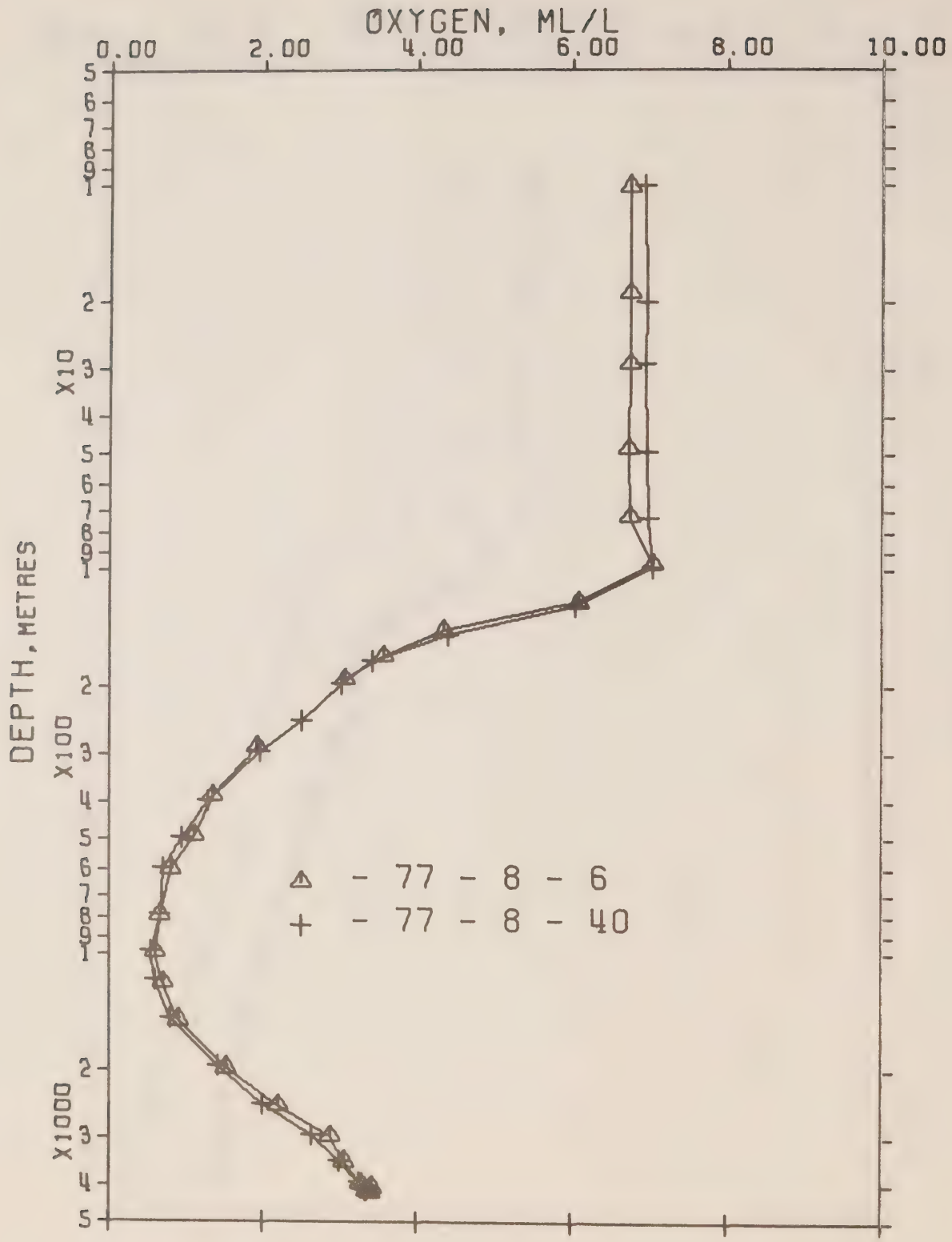
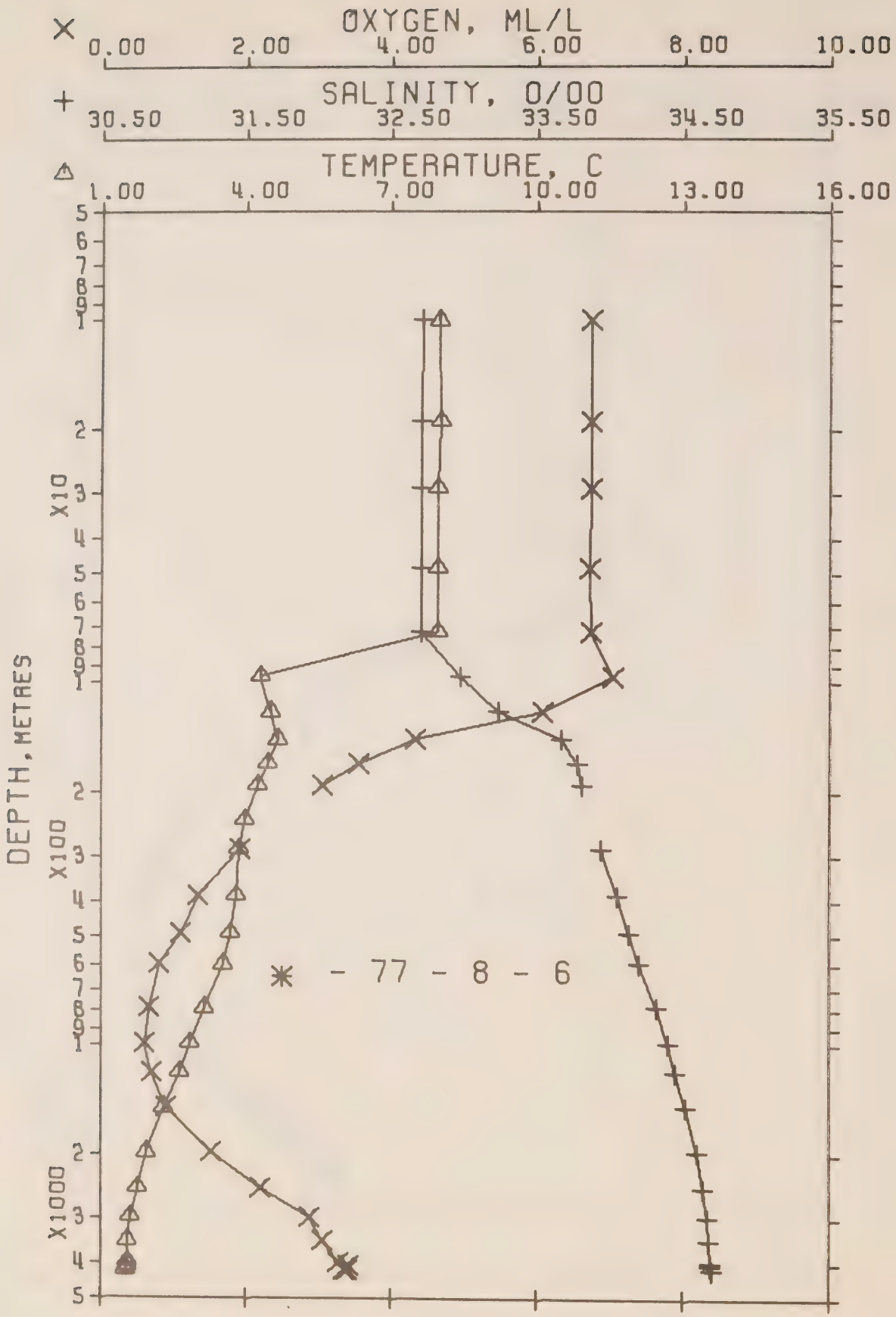


Figure 4. Composite plot of oxygen vs $\log_{10}$ depth for Station P. P-77-8.


OXYGEN, ML/L
0.00
2.00
4.00
6.00
8.00
10.00
SALINITY, O/OO
30.50
31.50
32.50
33.50
34.50
35.50
TEMPERATURE, C
1.00
4.00
7.00
10.00
13.00
16.00
DEPTH, METRES
X10
X100
X1000
* - 77 - 8 - 6

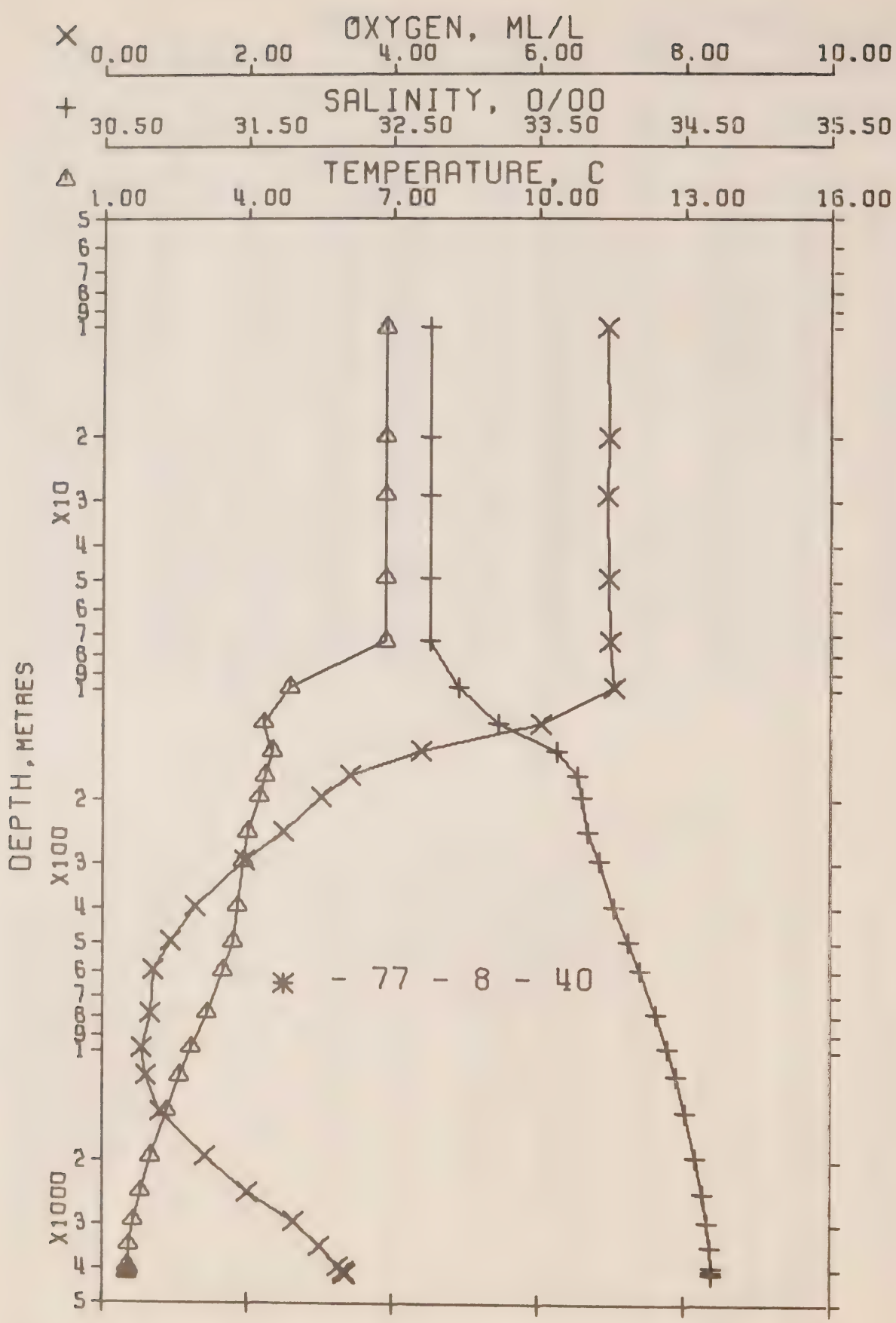
OFFSHORE OCEANOGRAPHY GROUP
REFERENCE NO. 77- 8- 6 DATE 4/11/77 GMT 18.4
POSITION 50- .0 N, 145- .0 W STATION P
HYDROGRAPHIC CAST DATA

OBSERVED DATA

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	THETA	SVA (THETA)	DELTA D	POT. EN	OXY	SOUND
0	7.98	32.717	0	25.509	248.2	7.98	248.2	.00	.00	6.77	1480.
10	8.00	32.722	10	25.510	248.3	8.00	248.1	.25	.01	6.74	1480.
19	8.01	32.713	19	25.502	249.2	8.01	248.9	.48	.05	6.75	1480.
29	7.96	32.708	29	25.505	249.1	7.96	248.6	.73	.11	6.73	1480.
48	7.97	32.712	48	25.507	249.2	7.97	248.4	1.20	.30	6.72	1481.
72	7.96	32.715	72	25.511	249.2	7.95	248.0	1.82	.68	6.73	1481.
97	4.30	32.979	96	26.174	185.8	4.29	185.0	2.35	1.13	7.05	1467.
121	4.50	33.237	120	26.357	168.7	4.49	167.6	2.78	1.61	6.08	1469.
144	4.65	33.671	143	26.685	138.0	4.64	136.5	3.13	2.08	4.35	1470.
168	4.46	33.783	167	26.794	127.8	4.45	126.1	3.45	2.59	3.56	1470.
192	4.24	33.811	191	26.839	123.6	4.23	121.8	3.76	3.15	3.05	1469.
241	3.96	33.880*	239	26.923	116.0	3.94	113.8	4.33	4.43	2.43*	1469.
289	3.85	33.936	287	26.979	111.0	3.83	108.5	4.88	5.91	1.92	1470.
389	3.80	34.047	386	27.072	103.0	3.77	99.6	5.95	9.60	1.34	1471.
493	3.66	34.129	489	27.151	96.3	3.63	92.1	6.99	14.25	1.09	1472.
603	3.51	34.201	598	27.223	90.1	3.47	85.2	8.01	19.98	.80	1474.
793	3.13	34.316	786	27.350	78.9	3.08	73.0	9.61	31.35	.66	1475.
996	2.84	34.397	986	27.441	71.1	2.77	64.3	11.13	45.13	.60	1477.
1197	2.61	34.453	1185	27.506	65.6	2.53	58.1	12.50	60.48	.70	1480.
1500	2.30	34.519	1484	27.584	58.8	2.20	50.5	14.38	86.23	.90	1484.
2006	1.94	34.598	1981	27.676	50.9	1.80	41.6	17.15	135.72	1.52	1491.
2511	1.74	34.642	2477	27.727	47.0	1.56	36.5	19.60	192.18	2.19	1498.
3017	1.61	34.670	2973	27.759	44.8	1.39	33.2	21.92	257.41	2.88	1506.
3524	1.54	34.683	3469	27.775	44.3	1.27	31.4	24.17	332.49	3.05	1515.
4033	1.54	34.686	3965	27.777	45.4	1.21	30.9	26.44	420.04	3.28	1523.
4134	1.53	34.693	4064	27.783	45.0	1.19	30.2	26.90	439.17	3.43*	1525.
4226	1.51	34.697	4153	27.788	44.6	1.16	29.7	27.31	456.63	3.35	1527.
4236	1.51	34.697	4163	27.788	44.7	1.16	29.7	27.36	458.61	3.39	1527.

INTERPOLATED TO STANDARD PRESSURE

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	THETA	SVA (THETA)	DELTA D	POT. EN	OXY	SOUND
0	7.98	32.717	0	25.509	248.2	7.98	248.2	.00	.00	6.77	1480.
10	8.00	32.722	10	25.510	248.3	8.00	248.1	.25	.01	6.74	1480.
20	8.00	32.712	20	25.502	249.2	8.00	248.9	.50	.05	6.74	1480.
30	7.96	32.708	30	25.505	249.1	7.96	248.6	.75	.11	6.73	1480.
50	7.97	32.712	50	25.507	249.2	7.96	248.4	1.24	.32	6.72	1481.
75	7.52	32.747	75	25.598	240.9	7.51	239.7	1.88	.73	6.77	1479.
100	4.33	33.019	99	26.202	183.2	4.32	182.3	2.41	1.19	6.90	1467.
125	4.53	33.322	124	26.421	162.7	4.52	161.5	2.85	1.69	5.74	1469.
150	4.60	33.701	149	26.714	135.3	4.59	133.7	3.21	2.21	4.14	1470.
175	4.39	33.791	174	26.807	126.5	4.38	124.8	3.54	2.74	3.41	1470.
200	4.19	33.823	199	26.854	122.3	4.18	120.4	3.85	3.34	2.95	1469.
225	4.04	33.859	223	26.898	118.3	4.03	116.2	4.15	3.99	2.62	1469.
250	3.94	33.891	248	26.934	115.0	3.92	112.7	4.44	4.69	2.32	1469.
300	3.84	33.950	298	26.990	110.0	3.82	107.4	5.00	6.27	1.85	1470.
400	3.78	34.057	397	27.081	102.2	3.76	98.7	6.06	10.05	1.31	1471.
500	3.65	34.134	496	27.156	95.8	3.61	91.6	7.05	14.59	1.07	1472.
600	3.51	34.199	595	27.221	90.3	3.47	85.4	7.98	19.80	.81	1474.
700	3.30	34.263	694	27.292	84.0	3.26	78.6	8.86	25.58	.73	1474.
800	3.12	34.319	793	27.353	78.6	3.06	72.7	9.67	31.78	.66	1475.
900	2.97	34.361	892	27.401	74.5	2.91	68.2	10.43	38.41	.63	1476.
1000	2.83	34.398	990	27.442	70.9	2.77	64.2	11.16	45.44	.60	1477.
1200	2.61	34.454	1188	27.506	65.5	2.53	58.0	12.52	60.70	.70	1480.
1500	2.30	34.519	1484	27.584	58.8	2.20	50.5	14.38	86.23	.90	1484.
2000	1.94	34.597	1976	27.676	51.0	1.81	41.7	17.12	135.15	1.51	1491.
2500	1.74	34.641	2467	27.726	47.1	1.57	36.6	19.55	190.90	2.18	1498.
3000	1.61	34.669	2956	27.758	44.9	1.39	33.3	21.84	255.08	2.86	1506.
3500	1.54	34.682	3445	27.774	44.3	1.27	31.5	24.00	328.64	3.05	1514.
4000	1.54	34.686	3933	27.777	45.3	1.22	30.9	26.29	413.95	3.27	1523.
4100	1.53	34.691	4031	27.781	45.2	1.20	30.4	26.75	432.67	3.38	1525.
4200	1.52	34.696	4128	27.787	44.9	1.17	29.8	27.20	451.68	3.38	1526.


OXYGEN, ML/L
0.00
2.00
4.00
6.00
8.00
10.00
SALINITY, O/OO
30.50
31.50
32.50
33.50
34.50
35.50
TEMPERATURE, C
1.00
4.00
7.00
10.00
13.00
16.00
DEPTH, METRES
X10
X100
X1000
* - 77 - 8 - 40

OFFSHORE OCEANOGRAPHY GROUP
REFERENCE NO. 77- 8- 40 DATE 27/11/77 GMT 18.5
POSITION 50- .0 N, 145- .0 W STATION P
HYDROGRAPHIC CAST DATA

OBSERVED DATA

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	THETA	SVA (THETA)	DELTA D	POT. EN	OXY	SOUND
0	6.87	32.756	0	25.694	230.6	6.87	230.6	.00	.00	6.87	1476.
10	6.86	32.761	10	25.699	230.3	6.86	230.1	.23	.01	6.95	1476.
20	6.84	32.761	20	25.702	230.2	6.84	229.9	.46	.05	6.97	1476.
29	6.84	32.758	29	25.700	230.5	6.84	230.1	.67	.10	6.95	1476.
49	6.84	32.761	49	25.702	230.5	6.84	229.8	1.14	.29	6.97	1476.
73	6.86	32.760	73	25.699	231.2	6.85	230.1	1.71	.64	6.97	1477.
99	4.88	32.960	98	26.097	193.3	4.87	192.3	2.24	1.11	7.03	1469.
124	4.34	33.233	123	26.371	167.4	4.33	166.3	2.69	1.62	6.04	1468.
148	4.52	33.626	147	26.663	140.0	4.51	138.5	3.06	2.14	4.39	1470.
173	4.37	33.771	172	26.794	127.8	4.36	126.1	3.40	2.69	3.42	1470.
198	4.23	33.805	197	26.836	124.0	4.22	122.1	3.72	3.29	3.02	1469.
249	4.00	33.843	247	26.890	119.2	3.98	117.0	4.33	4.68	2.50	1469.
299	3.92	33.921	297	26.960	113.0	3.90	110.3	4.91	6.31	1.97	1470.
400	3.80	34.025	397	27.054	104.8	3.77	101.3	6.01	10.22	1.28	1471.
501	3.69	34.125	497	27.145	96.9	3.65	92.6	7.03	14.90	.93	1473.
602	3.50	34.204	597	27.226	89.8	3.46	84.9	7.97	20.20	.70	1474.
791	3.16	34.310	784	27.342	79.6	3.11	73.7	9.57	31.51	.66	1475.
987	2.84	34.391	977	27.436	71.4	2.77	64.8	11.04	44.82	.54	1477.
1184	2.59	34.446	1172	27.502	65.8	2.51	58.5	12.39	59.77	.61	1480.
1482	2.32	34.509	1466	27.575	59.6	2.22	51.4	14.26	85.08	.81	1483.
1986	1.98	34.583	1962	27.661	52.4	1.84	43.0	17.08	134.87	1.41	1490.
2493	1.77	34.630	2460	27.715	48.2	1.59	37.7	19.62	192.80	2.01	1498.
3001	1.63	34.663	2957	27.752	45.5	1.41	33.9	21.98	258.96	2.65	1506.
3506	1.53	34.679	3451	27.772	44.4	1.26	31.7	24.26	334.38	3.00	1514.
4005	1.51	34.686	3938	27.779	44.9	1.19	30.7	26.47	419.30	3.26	1523.
4104	1.53	34.689	4034	27.780	45.2	1.19	30.5	26.92	437.63	3.34	1525.
4192	1.52	34.688	4120	27.780	45.3	1.17	30.5	27.32	454.54	3.34	1526.
4201	1.52	34.688	4129	27.780	45.4	1.17	30.5	27.36	456.33	3.36	1526.

INTERPOLATED TO STANDARD PRESSURE

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	THETA	SVA (THETA)	DELTA D	POT. EN	OXY	SOUND
0	6.87	32.756	0	25.694	230.6	6.87	230.6	.00	.00	6.87	1476.
10	6.86	32.761	10	25.699	230.3	6.86	230.1	.23	.01	6.95	1476.
20	6.84	32.761	20	25.702	230.2	6.84	229.9	.46	.05	6.97	1476.
30	6.84	32.758	30	25.700	230.5	6.84	230.1	.69	.11	6.95	1476.
50	6.84	32.761	50	25.702	230.6	6.84	229.8	1.15	.29	6.97	1476.
75	6.72	32.774	75	25.728	228.4	6.71	227.4	1.74	.67	6.98	1476.
100	4.85	32.976	99	26.114	191.7	4.84	190.7	2.27	1.14	6.97	1469.
125	4.35	33.254	124	26.386	165.9	4.34	164.8	2.71	1.65	5.95	1468.
150	4.51	33.638	149	26.674	139.0	4.50	137.5	3.09	2.18	4.31	1470.
175	4.36	33.774	174	26.797	127.5	4.35	126.8	3.42	2.73	3.39	1470.
200	4.22	33.806	199	26.838	123.8	4.21	121.9	3.74	3.33	3.00	1469.
225	4.10	33.826	223	26.866	121.3	4.09	119.3	4.04	3.99	2.73	1469.
250	4.00	33.845	248	26.891	119.1	3.98	116.8	4.34	4.72	2.49	1469.
300	3.92	33.922	298	26.960	112.9	3.90	110.2	4.92	6.34	1.96	1470.
400	3.80	34.025	397	27.054	104.8	3.77	101.3	6.01	10.22	1.28	1471.
500	3.69	34.124	496	27.144	97.0	3.66	92.7	7.02	14.84	.94	1473.
600	3.56	34.202	595	27.224	89.9	3.46	85.0	7.95	20.08	.70	1473.
700	3.31	34.262	694	27.290	84.2	3.26	78.7	8.82	25.83	.68	1474.
800	3.14	34.314	793	27.347	79.2	3.09	73.3	9.64	32.07	.65	1475.
900	2.97	34.357	892	27.397	74.8	2.91	68.5	10.41	38.74	.59	1476.
1000	2.82	34.395	990	27.441	71.0	2.75	64.3	11.14	45.79	.54	1477.
1200	2.57	34.450	1188	27.506	65.4	2.49	58.1	12.50	61.04	.62	1480.
1500	2.31	34.512	1484	27.578	59.3	2.20	51.1	14.36	86.68	.83	1484.
2000	1.97	34.584	1976	27.663	52.3	1.84	42.8	17.15	136.54	1.43	1491.
2500	1.77	34.630	2467	27.716	48.2	1.59	37.6	19.65	193.62	2.02	1498.
3000	1.63	34.663	2956	27.752	45.5	1.41	33.9	21.98	258.88	2.65	1506.
3500	1.53	34.679	3445	27.772	44.4	1.26	31.7	24.23	333.45	2.99	1514.
4000	1.51	34.686	3933	27.779	44.9	1.19	30.7	26.45	418.38	3.25	1523.
4100	1.53	34.689	4031	27.780	45.2	1.19	30.5	26.90	436.95	3.34	1525.
4200	1.52	34.688	4128	27.780	45.4	1.17	30.5	27.35	456.12	3.36	1526.

Results of STD Observations

(P-77-8)

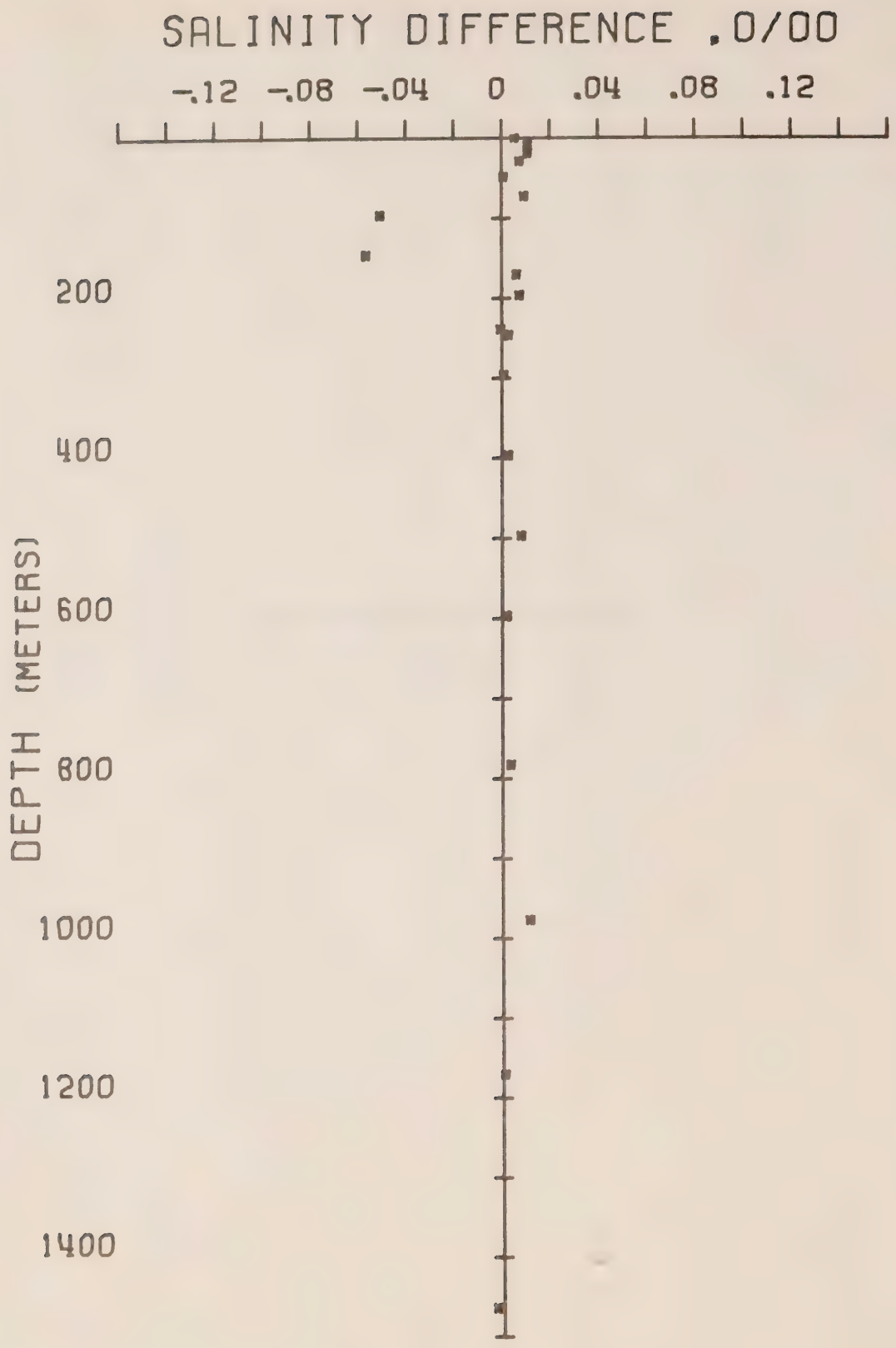


Figure 5. Salinity difference between hydrodata and STD. P-77-8. No correction applied to STD plots.

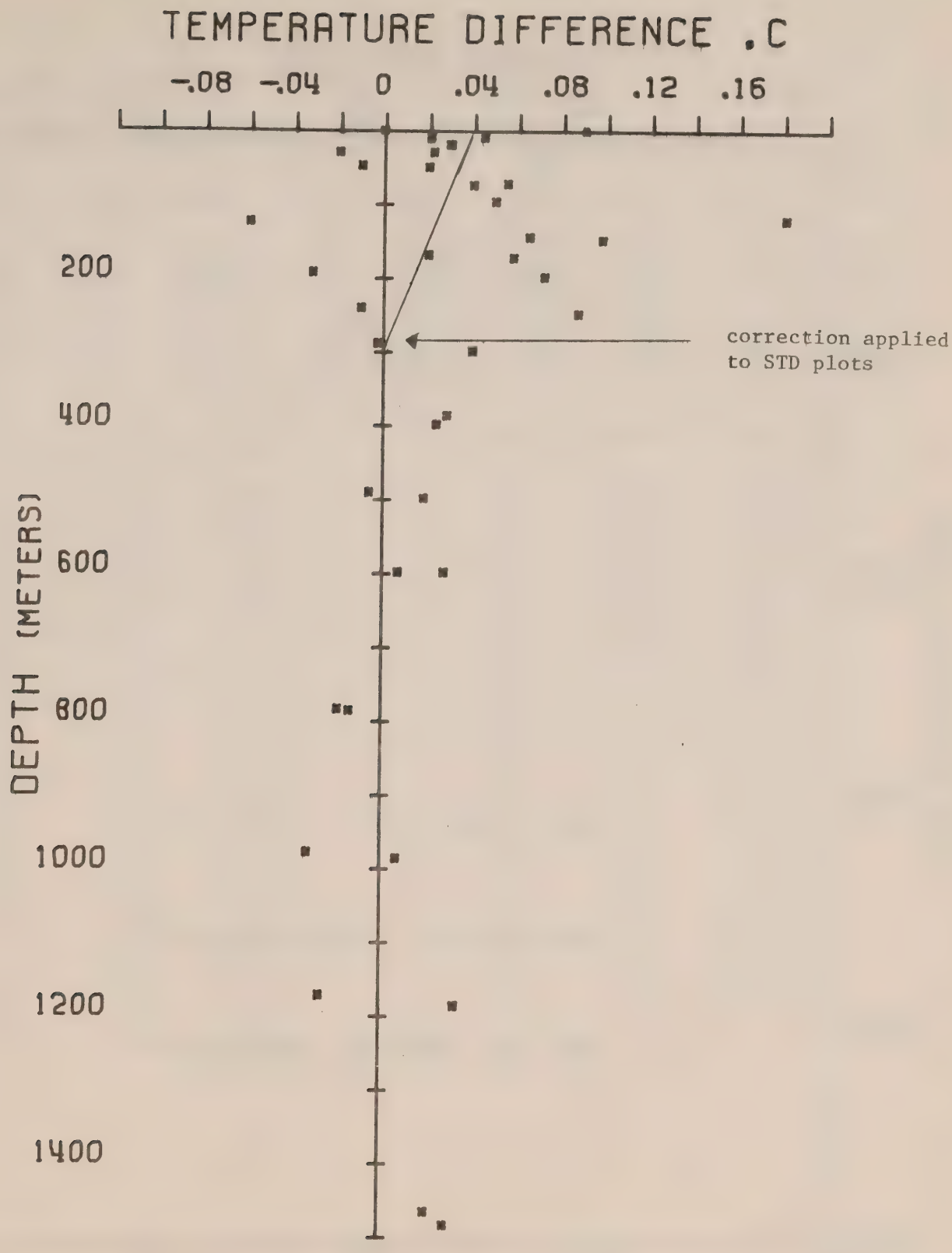
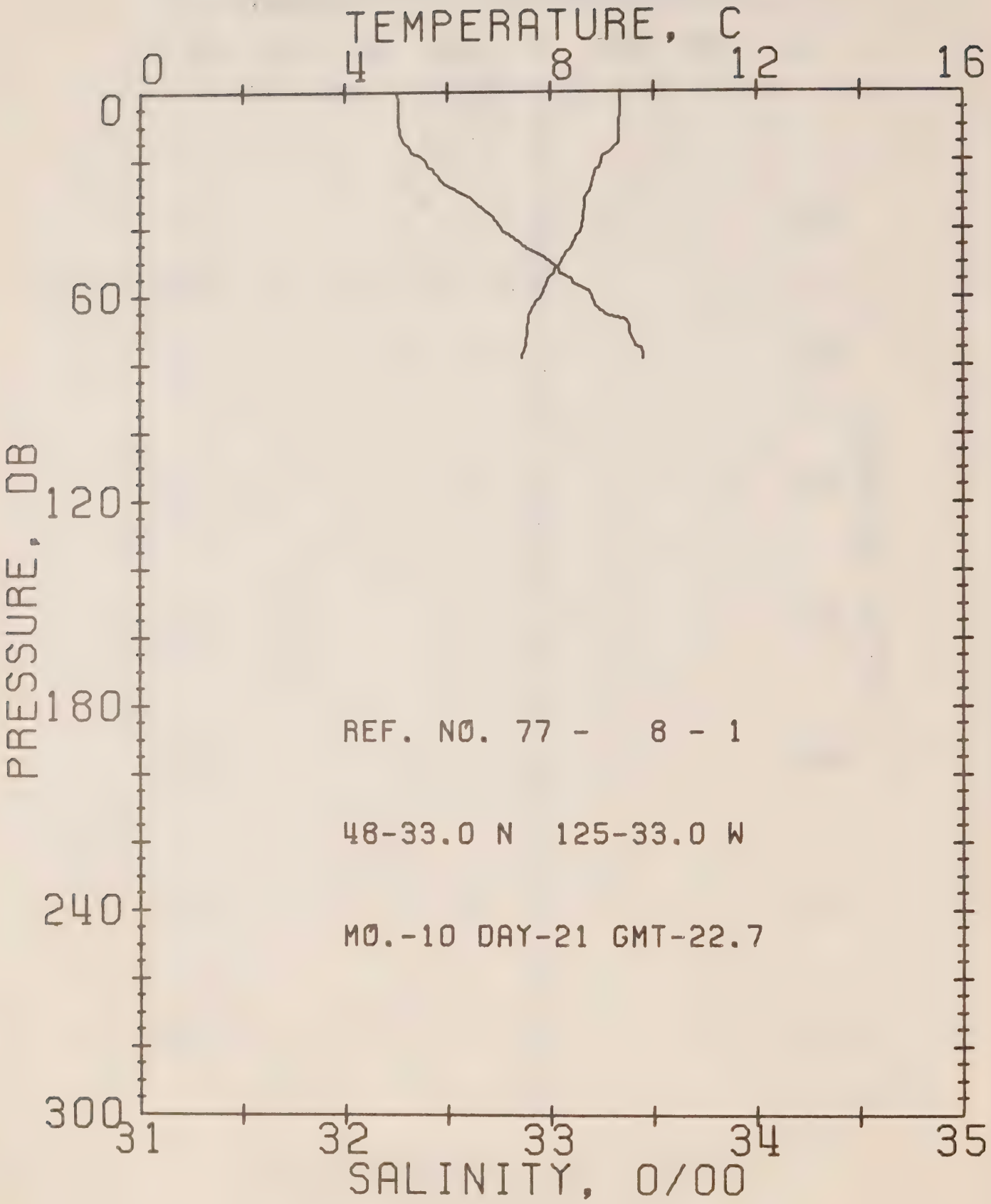


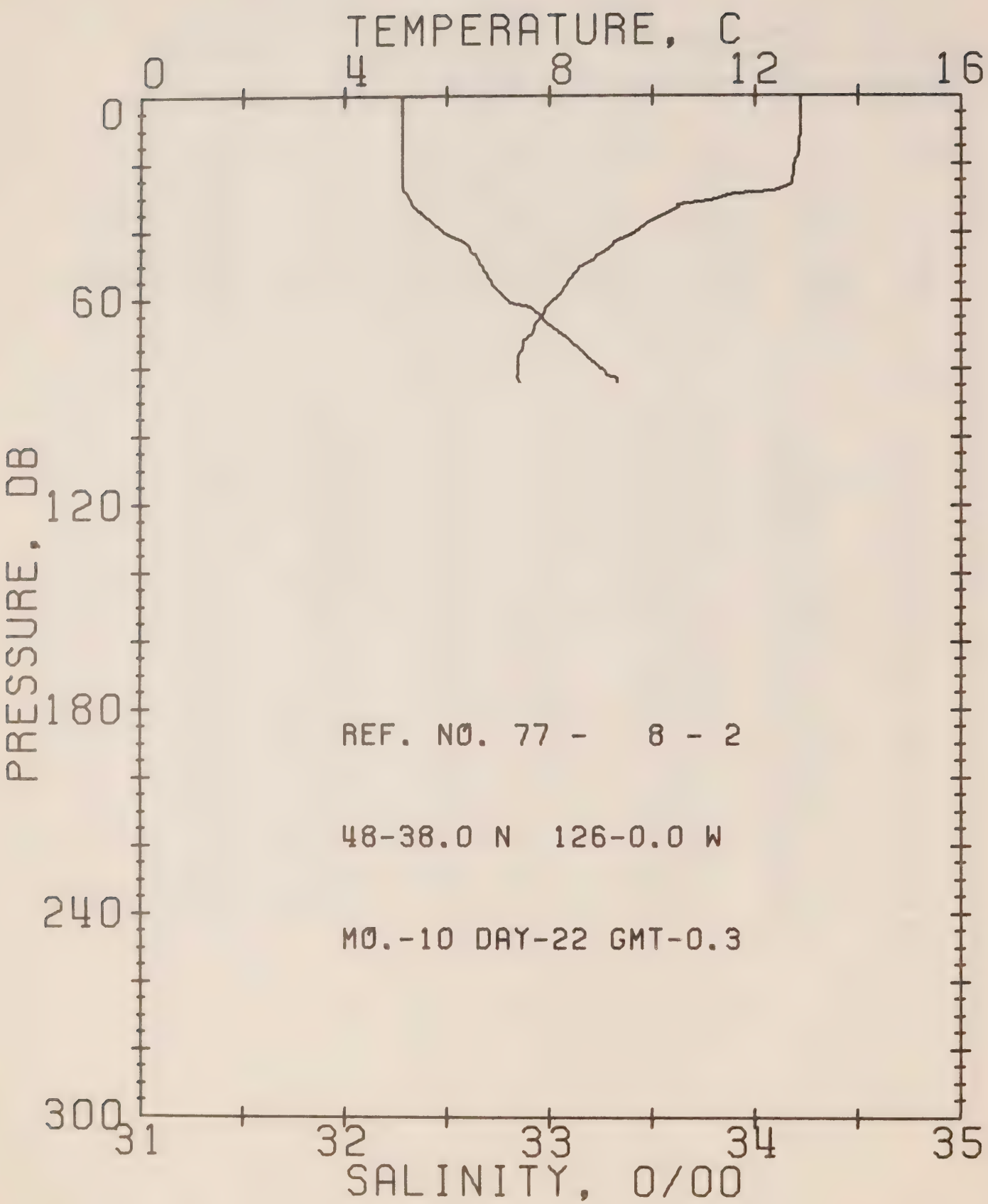
Figure 6. Temperature difference between hydrodata and STD. P-77-8.


TEMPERATURE, C
0
4
8
12
16
0
60
120
180
240
300
PRESSURE, DB
REF. NO. 77 - 8 - 1
48-33.0 N 125-33.0 W
MO.-10 DAY-21 GMT-22.7
31
32
33
34
35
SALINITY, O/OO

OFFSHORE OCEANOGRAPHY GROUP
REFERENCE NO. 77- 8- 1 DATE 21/10/77 STATION 1
POSITION 48-33.0N, 125-33.0W GMT 22.7
RESULTS OF STP CAST 45 POINTS TAKEN FROM ANALOG TRACE

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	9.35	32.25	0	24.94	302.7	0.0	0.0	1484.
10	9.34	32.26	10	24.95	302.0	0.30	0.02	1485.
20	8.99	32.39	20	25.10	287.4	0.60	0.06	1484.
30	8.72	32.57	30	25.29	270.0	0.88	0.13	1483.
50	8.19	33.00	50	25.70	231.1	1.38	0.34	1482.
75	7.49	33.44	75	26.15	189.0	1.90	0.66	1480.

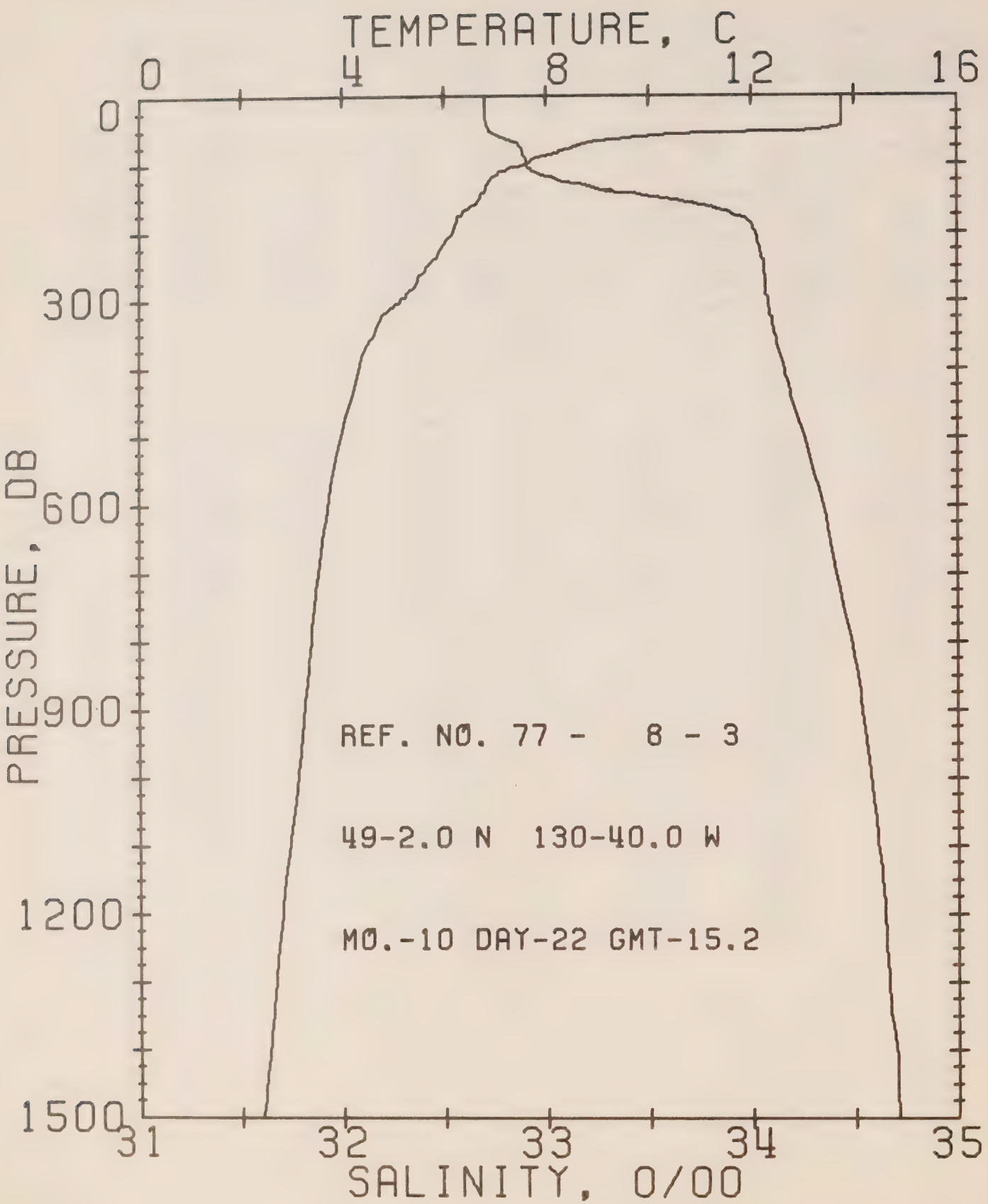
DEPTH	TEMP	SAL	DEPTH	TEMP	SAL
0.	9.35	32.25	47.	8.33	32.92
4.	9.35	32.26	48.	8.27	32.96
6.	9.35	32.26	50.	8.19	33.00
9.	9.34	32.26	51.	8.15	33.02
13.	9.33	32.27	52.	8.09	33.04
15.	9.33	32.29	53.	8.08	33.04
16.	9.26	32.31	55.	7.95	33.10
18.	9.12	32.33	56.	7.93	33.11
19.	9.01	32.37	58.	7.86	33.18
20.	8.99	32.39	60.	7.80	33.20
22.	8.95	32.41	61.	7.77	33.20
23.	8.87	32.43	63.	7.66	33.22
24.	8.85	32.44	65.	7.58	33.27
27.	8.81	32.48	67.	7.56	33.37
29.	8.78	32.54	69.	7.55	33.38
31.	8.67	32.61	71.	7.54	33.38
33.	8.66	32.64	73.	7.53	33.40
36.	8.64	32.71	74.	7.51	33.41
37.	8.63	32.72	75.	7.49	33.44
41.	8.58	32.77	76.	7.47	33.44
42.	8.50	32.80	77.	7.45	33.45
43.	8.47	32.82	78.	7.44	33.45
46.	8.36	32.89			


TEMPERATURE, C
0
4
8
12
16
0
60
120
180
240
300
PRESSURE, DB
REF. NO. 77 - 8 - 2
48-38.0 N 126-0.0 W
MO.-10 DAY-22 GMT-0.3
31
32
33
34
35
SALINITY, O/OO

OFFSHORE OCEANOGRAPHY GROUP
REFERENCE NO. 77- 8- 2 DATE 22/10/77 STATION 2
POSITION 48-38.0N, 126- 0.0W GMT 0.3
RESULTS OF STP CAST 48 POINTS TAKEN FROM ANALOG TRACE

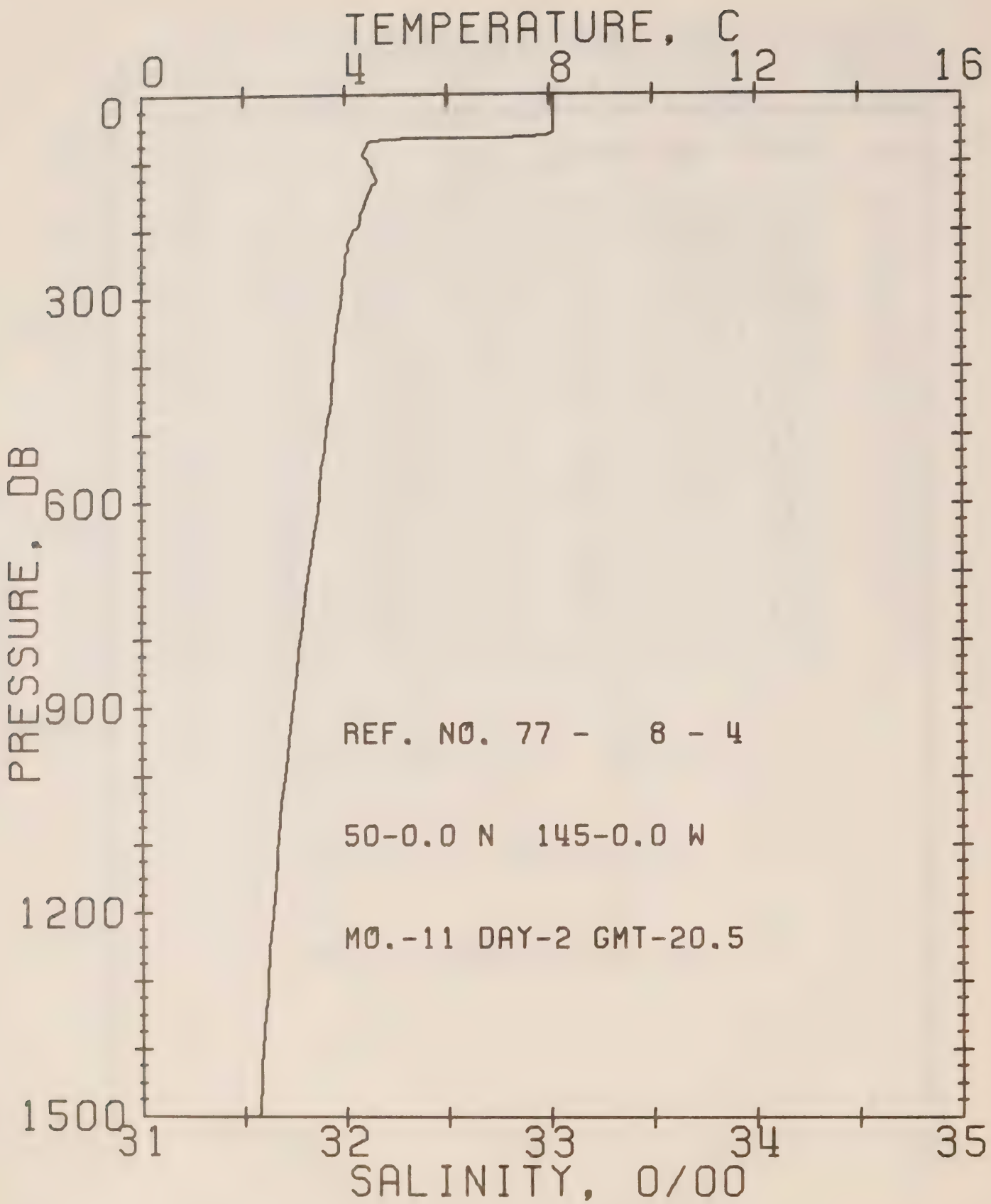
PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	12.87	32.28	0	24.34	359.8	0.0	0.0	1497.
10	12.87	32.28	10	24.34	360.2	0.36	0.02	1497.
20	12.76	32.28	20	24.36	358.5	0.72	0.07	1497.
30	11.37	32.31	30	24.64	331.7	1.07	0.16	1492.
50	8.60	32.67	50	25.38	261.4	1.66	0.40	1483.
75	7.44	33.16	75	25.93	209.2	2.25	0.77	1480.

DEPTH	TEMP	SAL	DEPTH	TEMP	SAL
0.	12.87	32.28	54.	8.41	32.71
8.	12.87	32.28	56.	8.31	32.73
9.	12.87	32.28	58.	8.23	32.76
16.	12.86	32.28	61.	8.02	32.81
18.	12.83	32.28	62.	7.96	32.91
19.	12.77	32.28	63.	7.91	32.92
22.	12.75	32.28	64.	7.89	32.95
26.	12.71	32.28	67.	7.74	32.99
27.	12.58	32.28	70.	7.69	33.06
28.	12.36	32.29	71.	7.61	33.08
29.	11.60	32.30	72.	7.50	33.10
31.	11.14	32.32	74.	7.50	33.14
32.	10.48	32.33	75.	7.44	33.16
33.	10.53	32.34	77.	7.38	33.19
37.	9.97	32.42	79.	7.38	33.23
40.	9.68	32.48	81.	7.39	33.27
41.	9.59	32.50	82.	7.38	33.28
43.	9.29	32.58	83.	7.36	33.33
44.	9.23	32.60	85.	7.43	33.33
46.	9.07	32.62			
47.	8.94	32.64			
48.	8.87	32.65			
50.	8.60	32.67			
52.	8.51	32.69			


TEMPERATURE, C
0
4
8
12
16
0
300
600
900
1200
1500
PRESSURE, DB
REF. NO. 77 - 8 - 3
49-2.0 N 130-40.0 W
MO.-10 DAY-22 GMT-15.2
31
32
33
34
35
SALINITY, O/OO

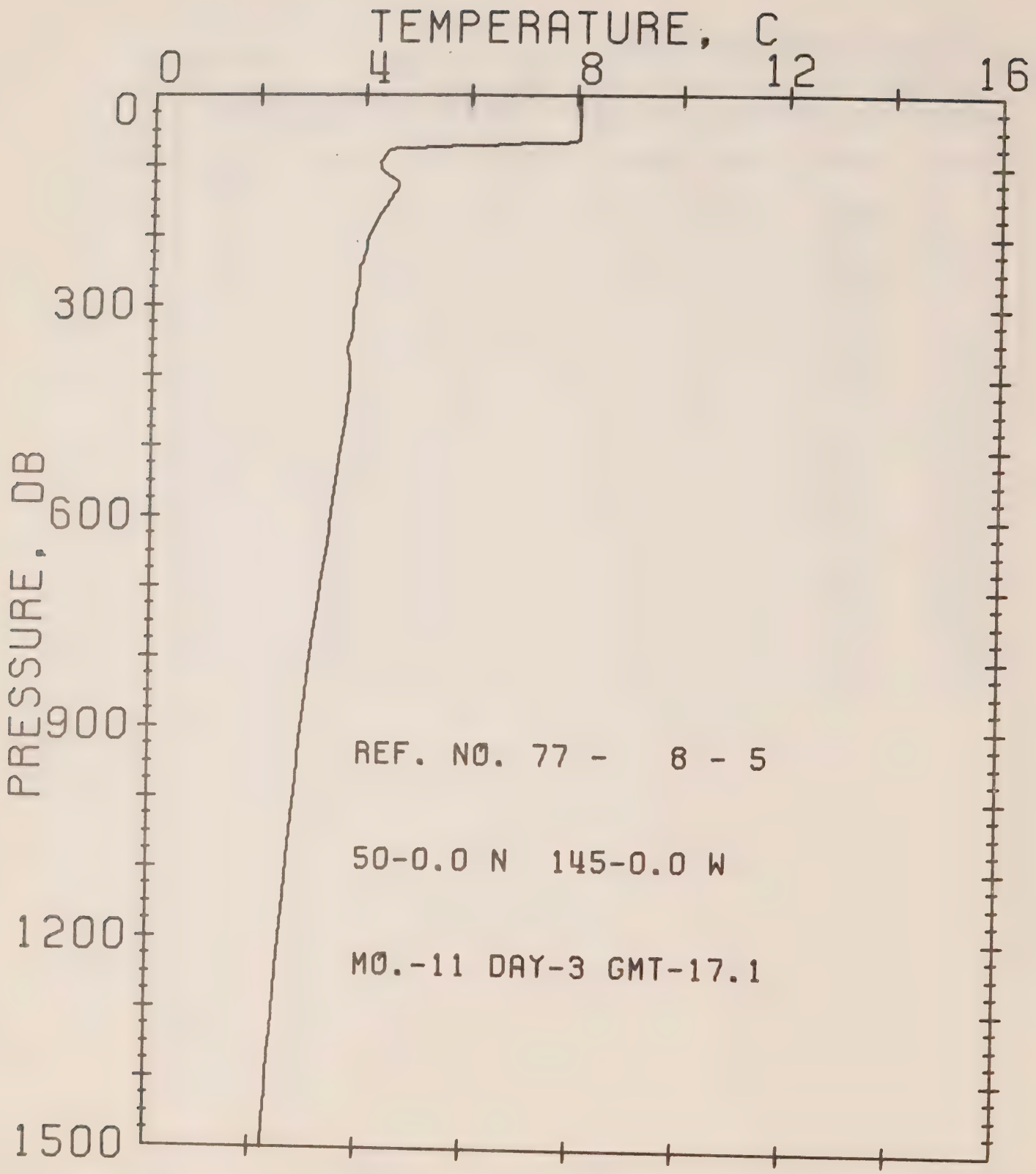
OFFSHORE OCEANOGRAPHY GROUP
REFERENCE NO. 77- 8- 3 DATE 22/10/77 STATION 6
POSITION 49- 2.0N. 130-40.0W GMT 15.2
RESULTS OF STP CAST 171 POINTS TAKEN FROM ANALOG TRACE

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	13.77	32.70	0	24.48	346.0	0.0	0.0	1501.
10	13.77	32.70	10	24.48	346.5	0.35	0.02	1501.
20	13.77	32.70	20	24.48	346.7	0.69	0.07	1501.
30	13.77	32.70	30	24.48	347.0	1.04	0.16	1501.
50	13.31	32.72	50	24.59	337.1	1.73	0.44	1500.
75	8.53	32.87	75	25.55	245.9	2.42	0.87	1483.
100	7.60	32.91	99	25.72	230.4	3.01	1.40	1480.
125	6.88	33.08	124	25.95	208.5	3.56	2.03	1478.
150	6.70	33.56	149	26.35	170.7	4.04	2.70	1478.
175	6.32	33.93	174	26.69	138.6	4.42	3.33	1478.
200	6.17	34.02	199	26.78	130.6	4.75	3.96	1478.
225	5.92	34.04	223	26.83	126.1	5.07	4.66	1477.
250	5.66	34.06	248	26.88	121.8	5.38	5.41	1477.
300	5.15	34.08	298	26.95	114.7	5.97	7.07	1475.
400	4.33	34.16	397	27.11	100.6	7.04	10.86	1474.
500	3.97	34.25	496	27.22	90.4	8.00	15.24	1474.
600	3.71	34.34	595	27.32	81.6	8.86	20.05	1475.
800	3.38	34.48	793	27.46	69.4	10.36	30.76	1477.
1000	3.12	34.58	990	27.56	60.8	11.66	42.61	1479.
1200	2.79	34.64	1188	27.64	53.9	12.80	55.35	1481.
1500	2.41	34.71	1484	27.73	46.0	14.29	75.87	1484.


TEMPERATURE, C
0
4
8
12
16
0
300
600
900
1200
1500
PRESSURE, DB
REF. NO. 77 - 8 - 4
50-0.0 N 145-0.0 W
MO.-11 DAY-2 GMT-20.5
31
32
33
34
35
SALINITY, O/OO

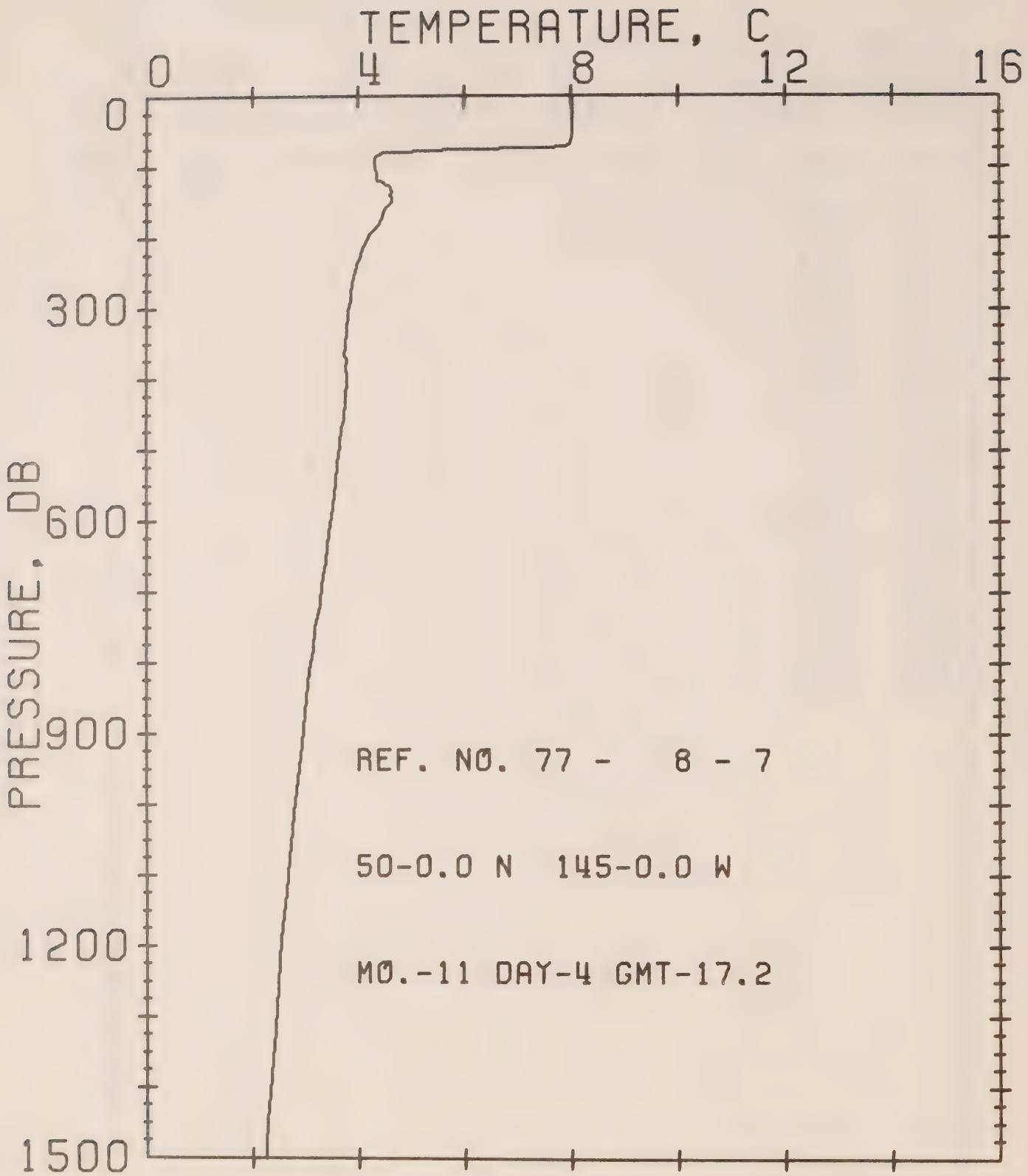
OFFSHORE OCEANOGRAPHY GROUP
REFERENCE NO. 77- 8- 4 DATE 2/11/77 STATION P
POSITION 50- 0.0N, 145- 0.0W GMT 20.5
RESULTS OF STP CAST 141 POINTS TAKEN FROM ANALOG TRACE

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	8.09							
10	8.09							
20	8.09							
30	8.09							
50	8.08							
75	4.44							
100	4.47							
125	4.63							
150	4.44							
175	4.31							
200	4.16							
225	4.06							
250	3.99							
300	3.93							
400	3.77							
500	3.63							
600	3.47							
800	3.11							
1000	2.80							
1200	2.55							
1500	2.27							


TEMPERATURE, C
0
4
8
12
16
0
300
600
900
1200
1500
PRESSURE, DB
REF. NØ. 77 - 8 - 5
50-0.0 N 145-0.0 W
MØ.-11 DAY-3 GMT-17.1

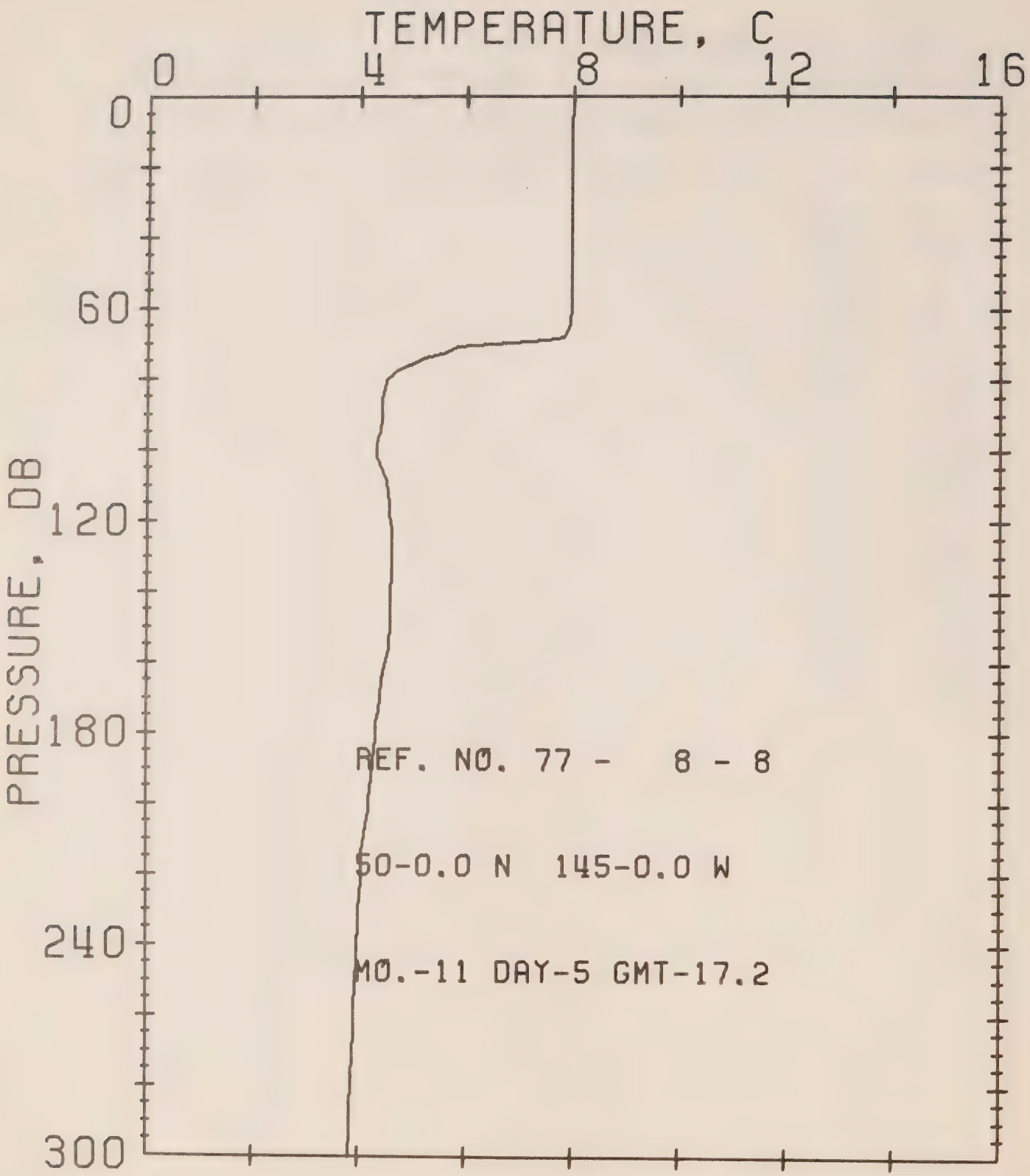
OFFSHORE OCEANOGRAPHY GROUP
REFERENCE NO. 77- 8- 5 DATE 3/11/77 STATION P
POSITION 50- 0.0N, 145- 0.0W GMT 17.1
RESULTS OF STP CAST 108 POINTS TAKEN FROM ANALOG TRACE

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	8.06							
10	8.05							
20	8.05							
30	8.05							
50	8.05							
75	4.91							
100	4.28							
125	4.61							
150	4.49							
175	4.29							
200	4.11							
225	4.03							
250	3.92							
300	3.87							
400	3.76							
500	3.61							
600	3.44							
800	3.07							
1000	2.79							
1200	2.54							
1500	2.25							


TEMPERATURE, C
0
4
8
12
16
PRESSURE, DB
0
300
600
900
1200
1500
REF. NO. 77 - 8 - 7
50-0.0 N 145-0.0 W
MO.-11 DAY-4 GMT-17.2

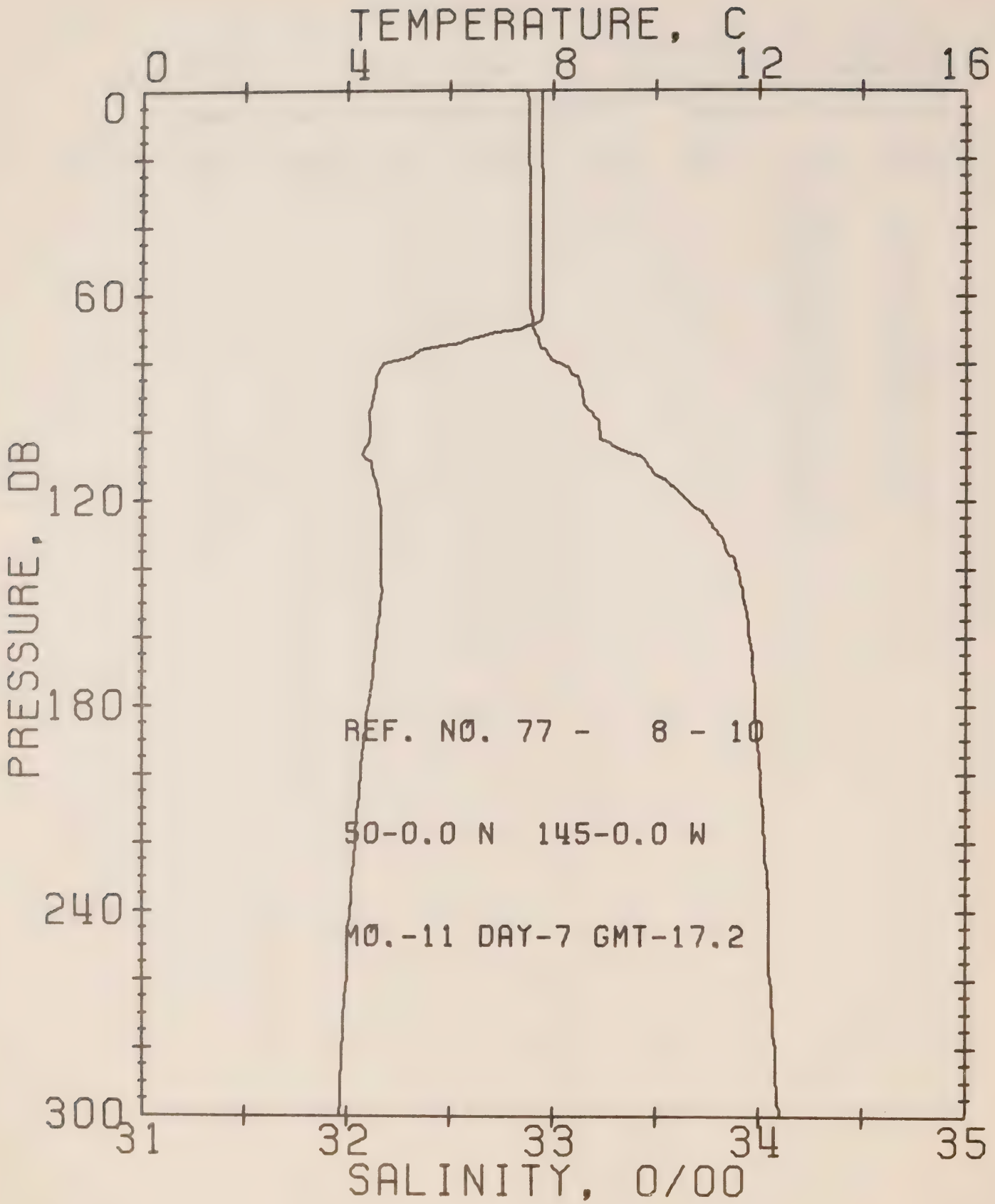
OFFSHORE OCEANOGRAPHY GROUP
REFERENCE NO. 77- 8- 7 DATE 4/11/77 STATION P
POSITION 50- 0.0N, 145- 0.0W GMT 17.2
RESULTS OF STP CAST 114 POINTS TAKEN FROM ANALOG TRACE

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	8.02							
10	8.02							
20	8.02							
30	8.02							
50	8.02							
75	6.94							
100	4.33							
125	4.53							
150	4.63							
175	4.44							
200	4.20							
225	4.04							
250	3.95							
300	3.85							
400	3.78							
500	3.65							
600	3.48							
800	3.11							
1000	2.80							
1200	2.54							
1500	2.24							


TEMPERATURE, C
0
4
8
12
16
0
60
120
180
240
300
PRESSURE, DB
REF. NØ. 77 - 8 - 8
50-0.0 N 145-0.0 W
MØ.-11 DAY-5 GMT-17.2

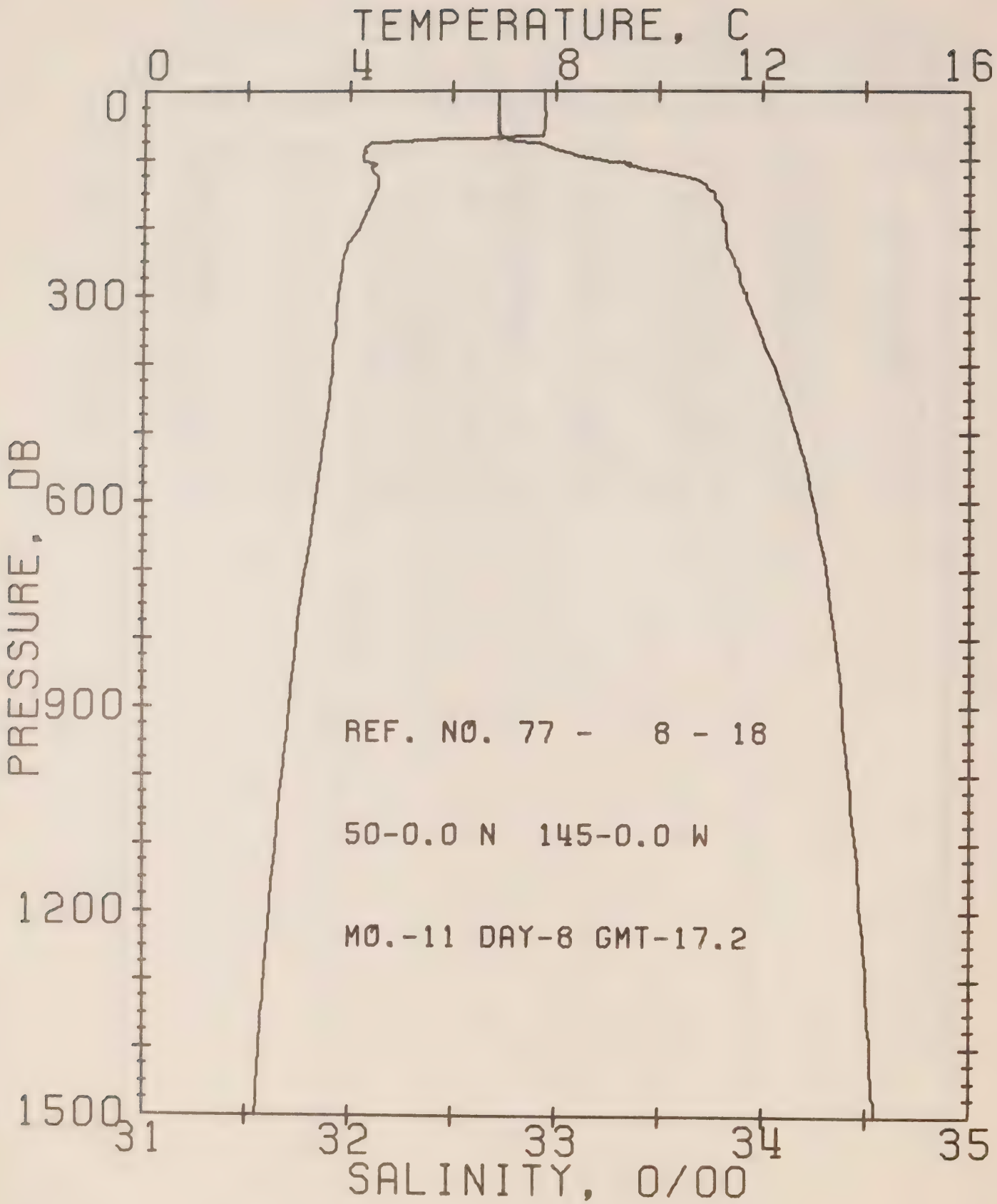
OFFSHORE OCEANOGRAPHY GROUP
REFERENCE NO. 77- 8- 8 DATE 5/11/77 STATION P
POSITION 50- 0.0N, 145- 0.0W GMT 17.2
RESULTS OF STP CAST 73 POINTS TAKEN FROM ANALOG TRACE

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	7.99							
10	7.98							
20	7.98							
30	7.98							
50	7.98							
75	5.08							
100	4.33							
125	4.62							
150	4.59							
175	4.36							
200	4.19							
225	4.03							
250	3.95							
300	3.82							


TEMPERATURE, C
0
4
8
12
16
0
60
120
180
240
300
PRESSURE, DB
REF. NO. 77 - 8 - 10
50-0.0 N 145-0.0 W
MO.-11 DAY-7 GMT-17.2
31
32
33
34
35
SALINITY, O/OO

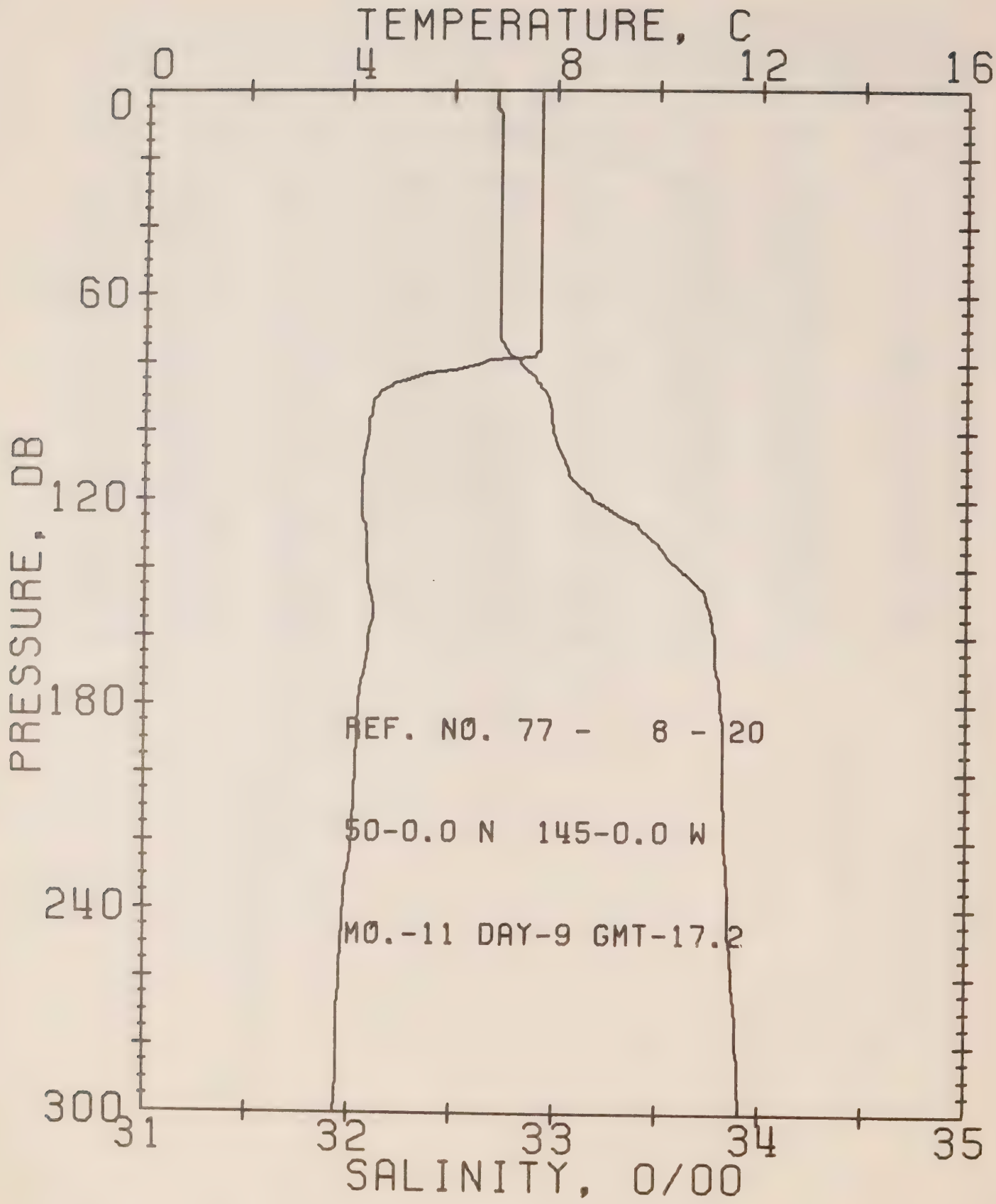
OFFSHORE OCEANOGRAPHY GROUP
REFERENCE NO. 77- 8- 10 DATE 7/11/77 STATION P
POSITION 50- 0.0N. 145- 0.0W GMT 17.2
RESULTS OF STP CAST 112 POINTS TAKEN FROM ANALOG TRACE

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	7.79	32.87	0	25.66	234.2	0.0	0.0	1479.
10	7.79	32.88	10	25.67	233.8	0.23	0.01	1480.
20	7.79	32.88	20	25.67	233.7	0.47	0.05	1480.
30	7.80	32.89	30	25.67	233.6	0.70	0.11	1480.
50	7.80	32.89	50	25.67	233.8	1.17	0.30	1480.
75	5.67	32.94	75	25.99	203.5	1.74	0.66	1472.
100	4.45	33.22	99	26.35	169.1	2.19	1.06	1468.
125	4.66	33.74	124	26.74	132.5	2.56	1.49	1470.
150	4.65	33.93	149	26.89	118.7	2.87	1.92	1471.
175	4.47	33.98	174	26.95	113.3	3.16	2.40	1470.
200	4.26	34.01	199	26.99	109.3	3.44	2.93	1470.
225	4.13	34.03	223	27.03	106.4	3.71	3.52	1470.
250	4.01	34.05	248	27.06	103.8	3.97	4.15	1470.
300	3.85	34.10	298	27.11	98.9	4.48	5.57	1470.


TEMPERATURE, C
0
4
8
12
16
0
300
600
900
1200
1500
PRESSURE, DB
REF. NO. 77 - 8 - 18
50-0.0 N 145-0.0 W
MO.-11 DAY-8 GMT-17.2
31
32
33
34
35
SALINITY, O/OO

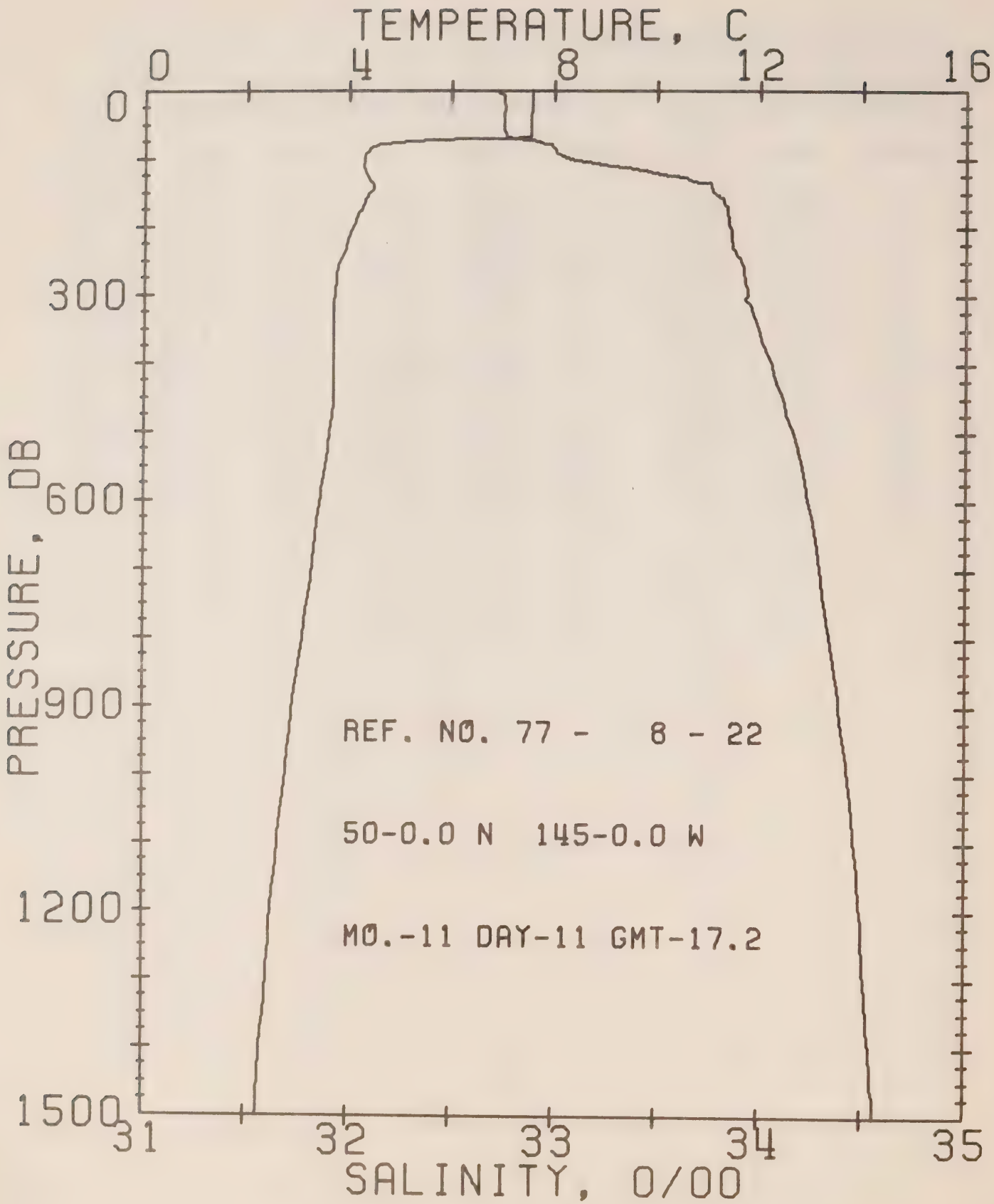
OFFSHORE OCEANOGRAPHY GROUP
REFERENCE NO. 77- 8- 18 DATE 8/11/77 STATION P
POSITION 50- 0.0N, 145- 0.0W GMT 17.2
RESULTS OF STP CAST 187 POINTS TAKEN FROM ANALOG TRACE

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	7.79	32.72	0	25.54	245.4	0.0	0.0	1479.
10	7.79	32.72	10	25.54	245.7	0.25	0.01	1479.
20	7.79	32.72	20	25.54	245.9	0.49	0.05	1479.
30	7.80	32.72	30	25.54	246.1	0.74	0.11	1480.
50	7.79	32.72	50	25.54	246.3	1.23	0.31	1480.
75	4.65	32.88	75	26.06	196.8	1.82	0.69	1468.
100	4.26	33.18	99	26.34	170.5	2.28	1.10	1467.
125	4.54	33.62	124	26.66	140.2	2.67	1.54	1469.
150	4.50	33.77	149	26.78	129.4	3.00	2.01	1470.
175	4.35	33.80	174	26.82	125.4	3.32	2.53	1470.
200	4.20	33.82	199	26.85	122.6	3.63	3.13	1469.
225	3.97	33.83	223	26.88	120.1	3.94	3.79	1469.
250	3.88	33.86	248	26.92	116.8	4.23	4.50	1469.
300	3.79	33.92	298	26.97	111.8	4.80	6.10	1469.
400	3.67	34.05	397	27.09	101.5	5.87	9.91	1471.
500	3.53	34.16	496	27.19	92.4	6.84	14.35	1472.
600	3.36	34.24	595	27.27	85.5	7.73	19.31	1473.
800	2.99	34.35	793	27.39	75.0	9.32	30.65	1475.
1000	2.72	34.42	990	27.47	68.2	10.75	43.75	1477.
1200	2.46	34.47	1188	27.54	62.5	12.06	58.35	1479.
1500	2.19	34.54	1483	27.61	56.1	13.83	82.66	1483.


TEMPERATURE, C
0
4
8
12
16
0
60
120
180
240
300
PRESSURE, DB
REF. NO. 77 - 8 - 20
50-0.0 N 145-0.0 W
MO.-11 DAY-9 GMT-17.2
31
32
33
34
35
SALINITY, O/OO

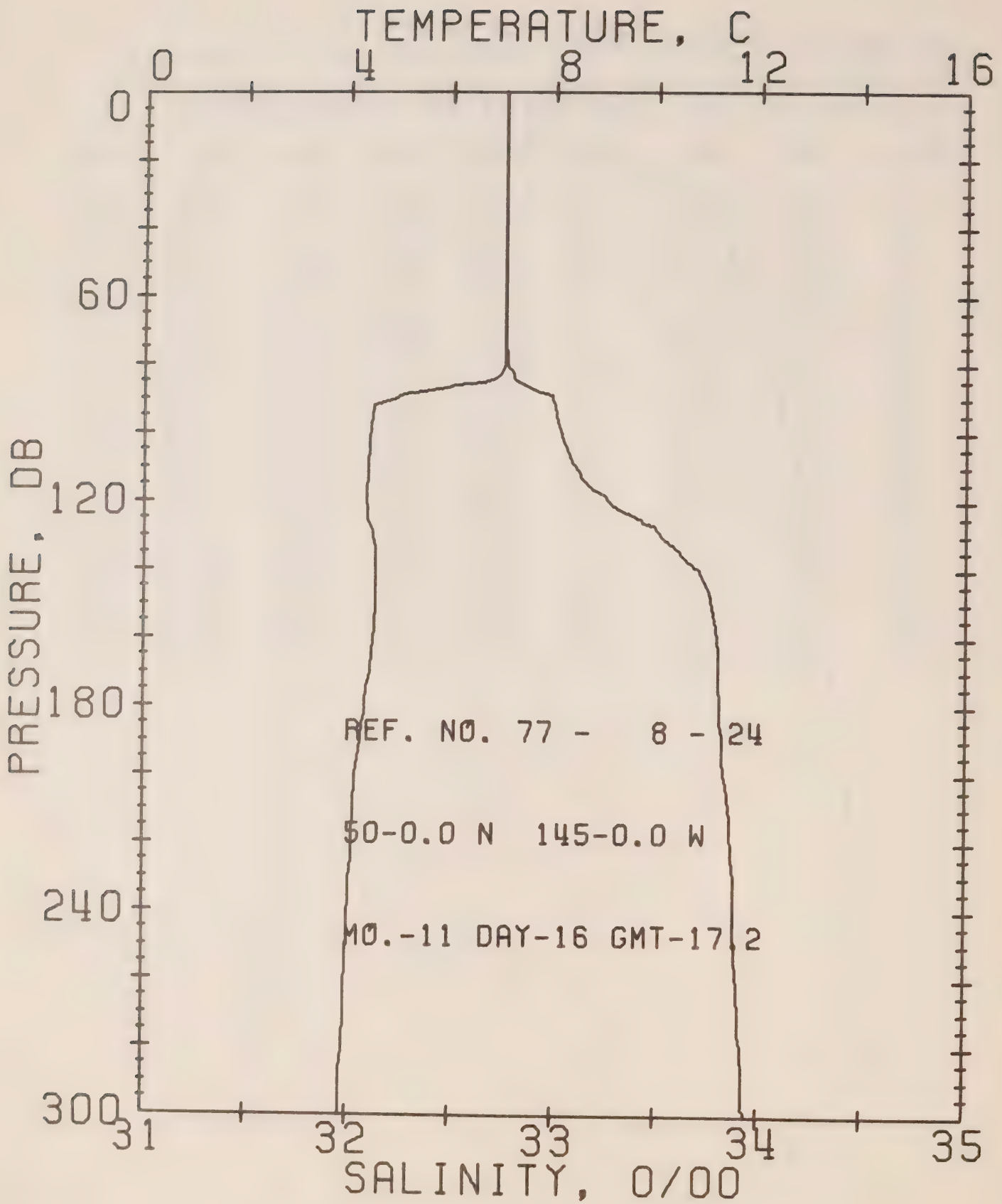
OFFSHORE OCEANOGRAPHY GROUP
REFERENCE NO. 77- 8- 20 DATE 9/11/77 STATION P
POSITION 50- 0.0N, 145- 0.0W GMT 17.2
RESULTS OF STP CAST 98 POINTS TAKEN FROM ANALOG TRACE

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	7.72	32.71	0	25.54	245.2	0.0	0.0	1479.
10	7.72	32.73	10	25.56	244.0	0.24	0.01	1479.
20	7.71	32.73	20	25.56	244.0	0.49	0.05	1479.
30	7.71	32.73	30	25.56	244.2	0.73	0.11	1479.
50	7.71	32.73	50	25.56	244.5	1.22	0.31	1480.
75	7.70	32.75	75	25.58	243.2	1.83	0.70	1480.
100	4.36	32.99	99	26.18	185.7	2.34	1.15	1467.
125	4.26	33.33	124	26.46	159.4	2.78	1.65	1468.
150	4.46	33.74	149	26.76	131.1	3.14	2.15	1470.
175	4.23	33.80	174	26.84	124.0	3.46	2.68	1469.
200	4.12	33.82	199	26.86	121.9	3.76	3.26	1469.
225	4.02	33.83	223	26.88	119.9	4.07	3.92	1469.
250	3.87	33.85	248	26.91	117.2	4.36	4.64	1469.
300	3.74	33.91	298	26.97	112.1	4.93	6.24	1469.


TEMPERATURE, C
0
4
8
12
16
0
300
600
900
1200
1500
PRESSURE, DB
REF. NO. 77 - 8 - 22
50-0.0 N 145-0.0 W
MO.-11 DAY-11 GMT-17.2
31
32
33
34
35
SALINITY, O/OO

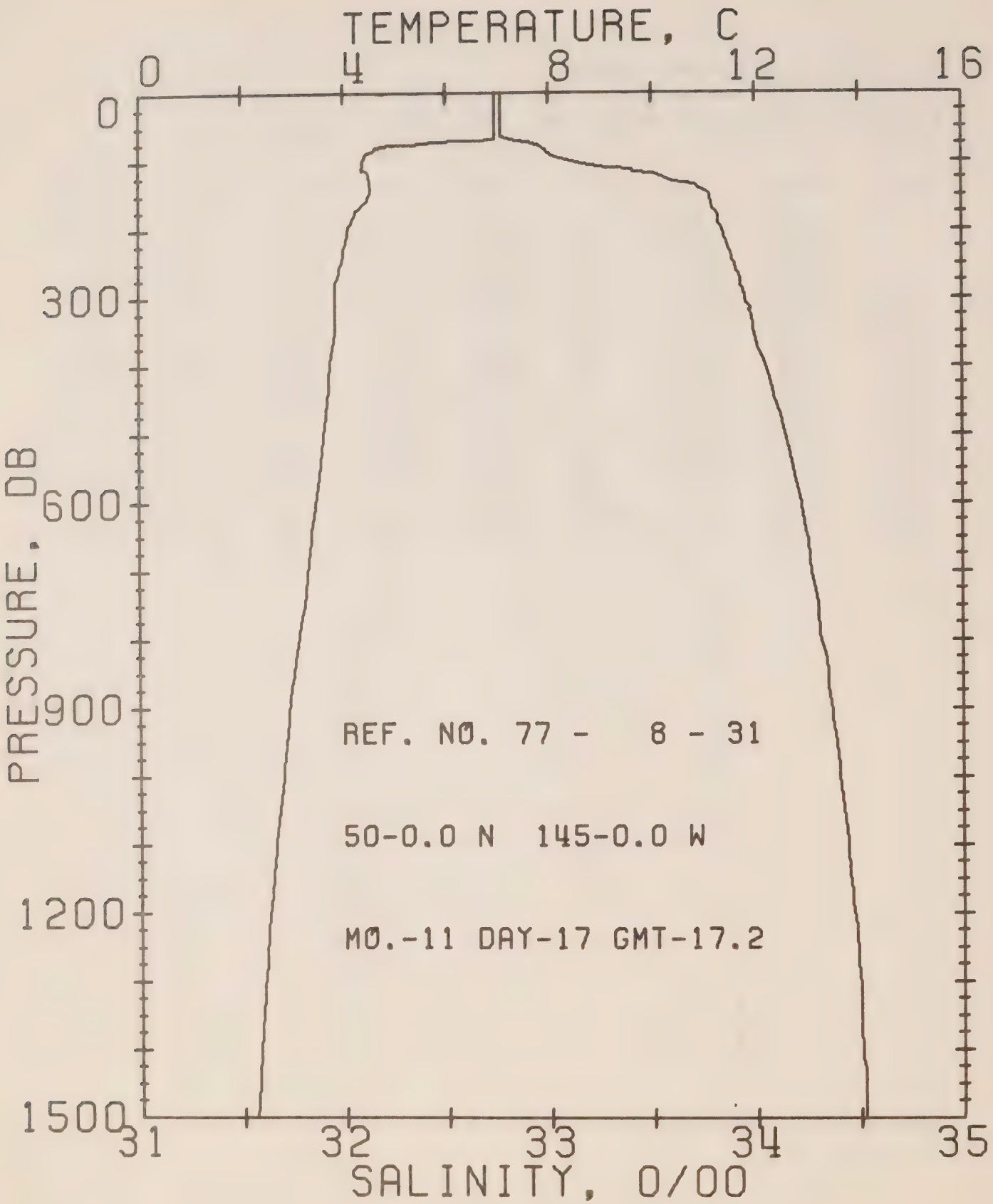
OFFSHORE OCEANOGRAPHY GROUP
REFERENCE NO. 77- 8- 22 DATE 11/11/77 STATION P
POSITION 50- 0.0N, 145- 0.0W GMT 17.2
RESULTS OF STP CAST 157 POINTS TAKEN FROM ANALOG TRACE

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	7.56	32.72	0	25.57	242.3	0.0	0.0	1478.
10	7.56	32.75	10	25.60	240.4	0.24	0.01	1478.
20	7.56	32.75	20	25.60	240.2	0.48	0.05	1479.
30	7.56	32.76	30	25.60	240.1	0.72	0.11	1479.
50	7.55	32.75	50	25.60	240.9	1.20	0.31	1479.
75	5.07	32.93	75	26.06	197.2	1.79	0.68	1470.
100	4.30	33.08	99	26.26	178.4	2.25	1.09	1467.
125	4.37	33.60	124	26.66	139.9	2.65	1.55	1469.
150	4.41	33.78	149	26.80	127.2	2.98	2.01	1469.
175	4.24	33.84	174	26.86	121.3	3.29	2.52	1469.
200	4.08	33.85	199	26.89	118.9	3.59	3.09	1469.
225	3.96	33.87	223	26.92	116.7	3.88	3.73	1469.
250	3.81	33.91	248	26.96	112.4	4.17	4.42	1469.
300	3.73	33.94	298	27.00	109.7	4.73	5.98	1469.
400	3.70	34.06	397	27.09	101.3	5.78	9.74	1471.
500	3.64	34.16	496	27.18	93.6	6.76	14.22	1472.
600	3.45	34.24	595	27.26	86.9	7.66	19.24	1473.
800	3.11	34.34	793	27.37	76.9	9.29	30.86	1475.
1000	2.79	34.43	990	27.48	68.0	10.73	44.06	1477.
1200	2.51	34.49	1188	27.55	61.6	12.02	58.52	1480.
1500	2.22	34.56	1483	27.63	54.9	13.77	82.49	1483.


TEMPERATURE, C
0
4
8
12
16
0
60
120
180
240
300
PRESSURE, DB
REF. NO. 77 - 8 - 24
50-0.0 N 145-0.0 W
MO.-11 DAY-16 GMT-17.2
31
32
33
34
35
SALINITY, O/OO

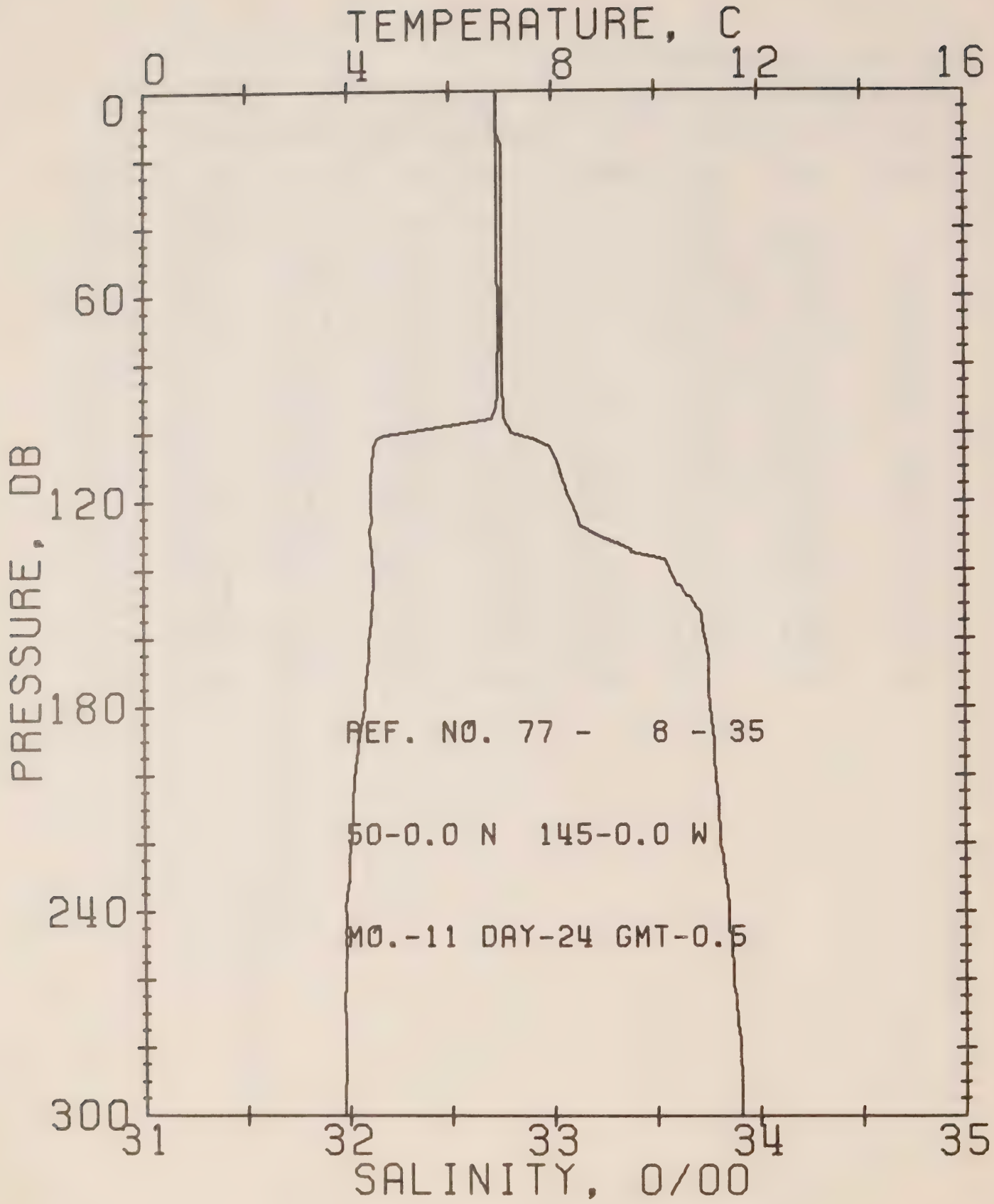
OFFSHORE OCEANOGRAPHY GROUP
REFERENCE NO. 77- 8- 24 DATE 16/11/77 STATION P
POSITION 50- 0.0N, 145- 0.0W GMT 17.2
RESULTS OF STP CAST 85 POINTS TAKEN FROM ANALOG TRACE

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	7.04	32.75	0	25.67	233.2	0.0	0.0	1476.
10	7.05	32.76	10	25.67	232.9	0.23	0.01	1479.
20	7.05	32.76	20	25.67	233.1	0.47	0.05	1477.
30	7.05	32.76	30	25.67	233.2	0.70	0.11	1477.
50	7.05	32.76	50	25.67	233.5	1.17	0.30	1477.
75	7.04	32.76	75	25.68	233.5	1.75	0.67	1478.
100	4.41	33.03	99	26.20	183.3	2.27	1.13	1468.
125	4.38	33.42	124	26.52	153.9	2.70	1.62	1468.
150	4.54	33.76	149	26.77	130.0	3.05	2.11	1470.
175	4.35	33.80	174	26.82	125.3	3.37	2.64	1470.
200	4.14	33.83	199	26.87	121.3	3.68	3.23	1469.
225	4.06	33.87	223	26.91	117.6	3.97	3.87	1469.
250	3.99	33.89	248	26.93	116.0	4.27	4.58	1469.
300	3.85	33.94	298	26.98	110.9	4.83	6.17	1470.


TEMPERATURE, C
0
4
8
12
16
0
300
600
900
1200
1500
PRESSURE, DB
REF. NO. 77 - 8 - 31
50-0.0 N 145-0.0 W
MO.-11 DAY-17 GMT-17.2
31
32
33
34
35
SALINITY, O/OO

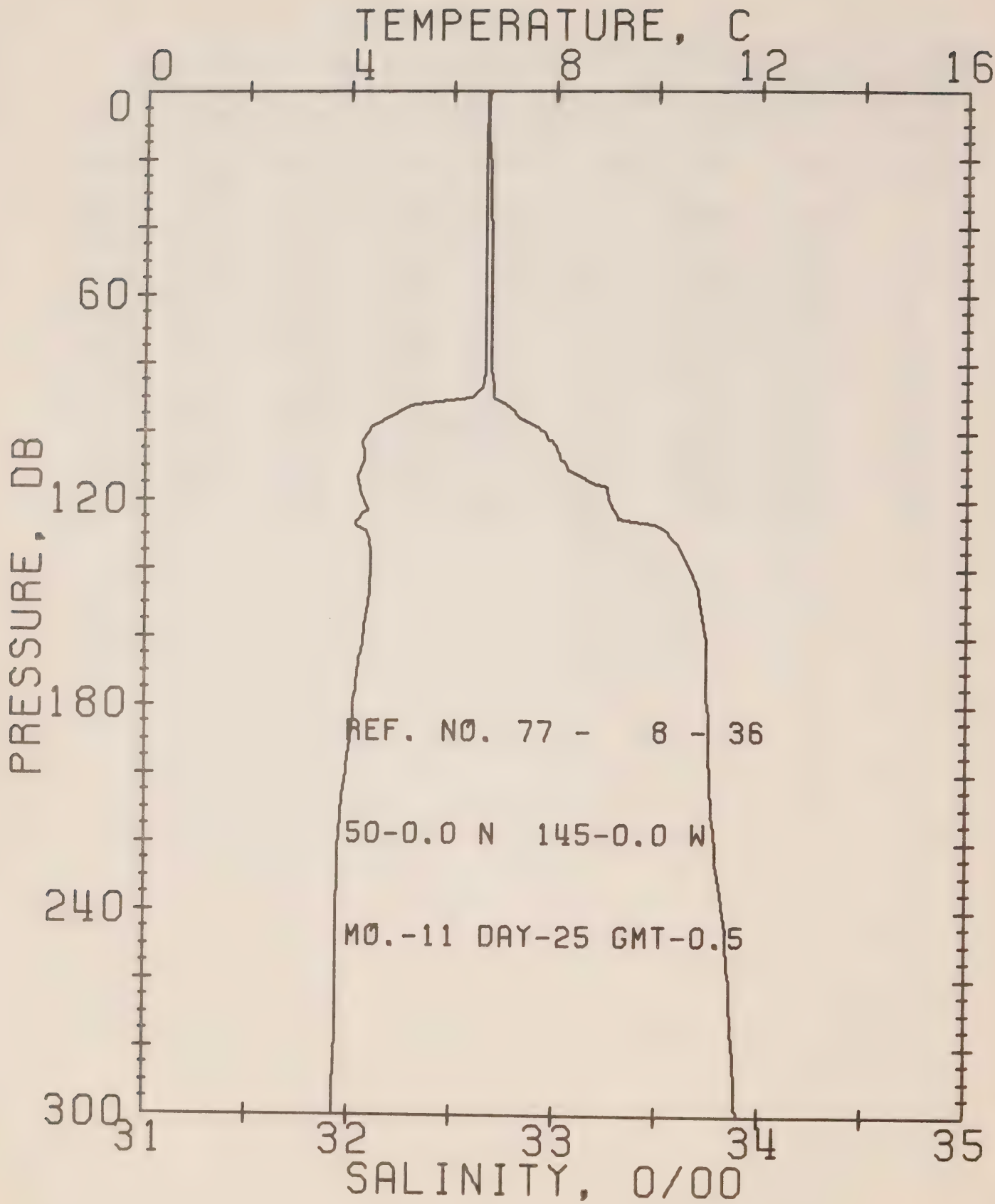
OFFSHORE OCEANOGRAPHY GROUP
REFERENCE NO. 77- 8- 31 DATE 17/11/77 STATION P
POSITION 50- 0.0N, 145- 0.0W GMT 17.2
RESULTS OF STP CAST 172 POINTS TAKEN FROM ANALOG TRACE

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.96	32.77	0	25.69	230.7	0.0	0.0	1476.
10	6.97	32.77	10	25.69	231.2	0.23	0.01	1476.
20	6.97	32.77	20	25.69	231.3	0.46	0.05	1476.
30	6.97	32.77	30	25.69	231.5	0.69	0.11	1476.
50	6.96	32.77	50	25.69	231.6	1.16	0.29	1477.
75	5.28	32.94	75	26.04	199.1	1.72	0.65	1471.
100	4.37	33.10	99	26.26	177.7	2.19	1.07	1468.
125	4.52	33.56	124	26.61	144.9	2.59	1.53	1469.
150	4.50	33.78	149	26.79	128.7	2.93	2.00	1470.
175	4.24	33.80	174	26.84	124.0	3.24	2.52	1469.
200	4.03	33.84	199	26.88	120.1	3.55	3.10	1469.
225	4.01	33.87	223	26.91	117.4	3.85	3.75	1469.
250	3.95	33.90	248	26.94	114.6	4.14	4.45	1469.
300	3.85	33.95	298	26.99	110.2	4.70	6.02	1470.
400	3.73	34.05	397	27.08	102.3	5.76	9.32	1471.
500	3.61	34.14	496	27.17	94.8	6.75	14.34	1472.
600	3.44	34.22	595	27.25	88.2	7.67	19.46	1473.
800	3.11	34.31	793	27.35	78.9	9.33	31.33	1475.
1000	2.79	34.40	990	27.45	70.4	10.81	44.86	1477.
1200	2.51	34.47	1188	27.53	63.6	12.14	59.79	1479.
1500	2.25	34.52	1483	27.59	58.2	13.95	84.61	1483.


TEMPERATURE, C
0
4
8
12
16
0
60
120
180
240
300
PRESSURE, DB
REF. NO. 77 - 8 - 35
50-0.0 N 145-0.0 W
MO.-11 DAY-24 GMT-0.5
31
32
33
34
35
SALINITY, O/OO

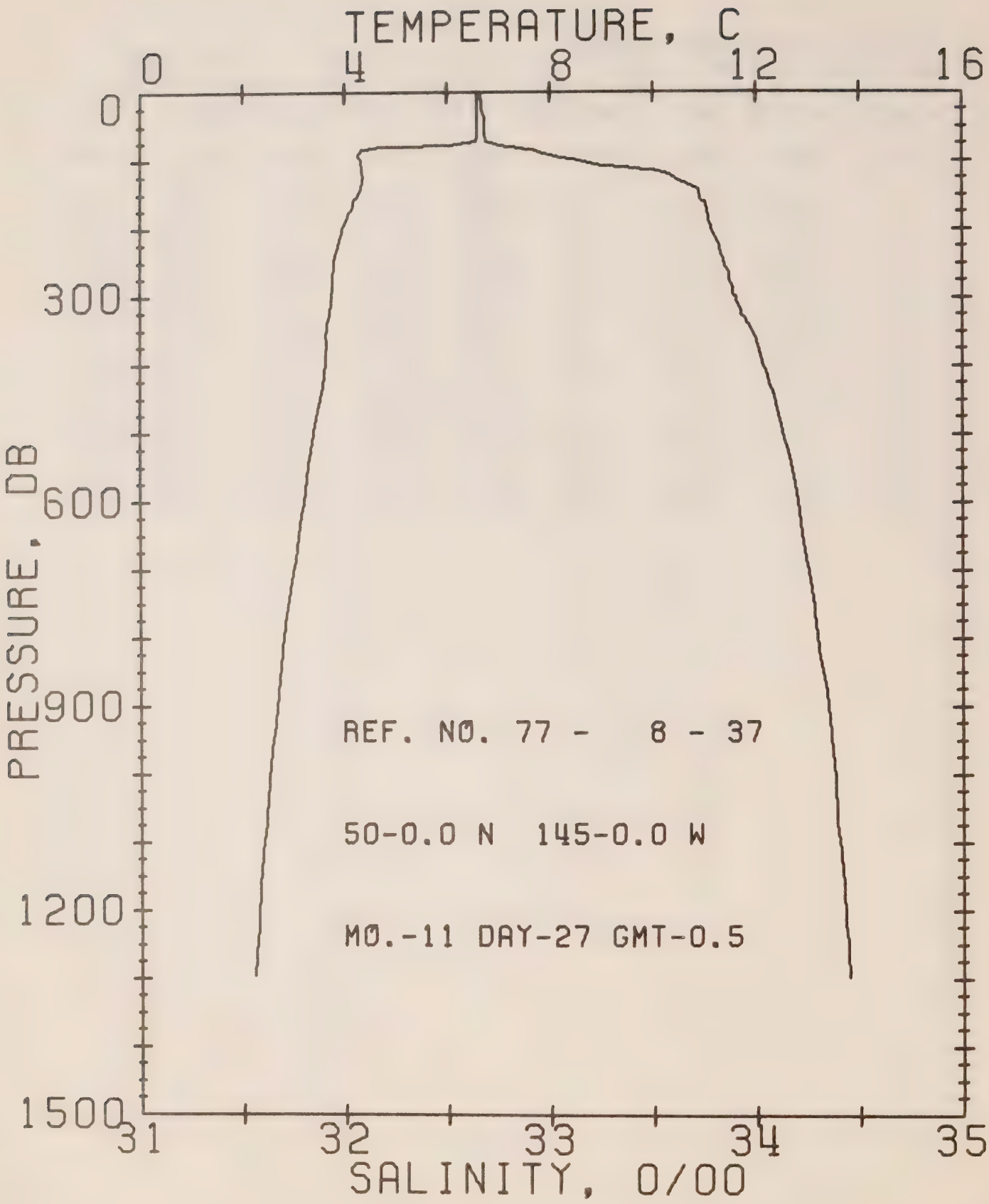
OFFSHORE OCEANOGRAPHY GROUP
REFERENCE NO. 77- 8- 35 DATE 24/11/77 STATION P
POSITION 50- 0.0N, 145- 0.0W GMT 0.5
RESULTS OF STP CAST 94 POINTS TAKEN FROM ANALOG TRACE

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.94	32.73	0	25.67	233.5	0.0	0.0	1476.
10	6.94	32.73	10	25.67	233.8	0.23	0.01	1476.
20	6.94	32.75	20	25.68	232.4	0.47	0.05	1476.
30	6.94	32.75	30	25.68	232.5	0.70	0.11	1476.
50	6.94	32.75	50	25.68	232.8	1.16	0.30	1477.
75	6.95	32.75	75	25.68	233.2	1.75	0.67	1477.
100	5.09	32.80	99	25.95	207.7	2.32	1.18	1470.
125	4.47	33.12	124	26.27	177.3	2.78	1.71	1468.
150	4.47	33.69	149	26.72	134.8	3.17	2.24	1470.
175	4.34	33.75	174	26.78	129.1	3.49	2.78	1469.
200	4.12	33.79	199	26.84	124.2	3.81	3.39	1469.
225	4.01	33.82	223	26.87	120.7	4.12	4.05	1469.
250	3.93	33.86	248	26.91	117.3	4.41	4.77	1469.
300	3.90	33.91	298	26.95	113.6	4.99	6.38	1470.


TEMPERATURE, C
0
4
8
12
16
0
60
120
180
240
300
PRESSURE, DB
REF. NO. 77 - 8 - 36
50-0.0 N 145-0.0 W
MO.-11 DAY-25 GMT-0.5
31
32
33
34
35
SALINITY, O/OO

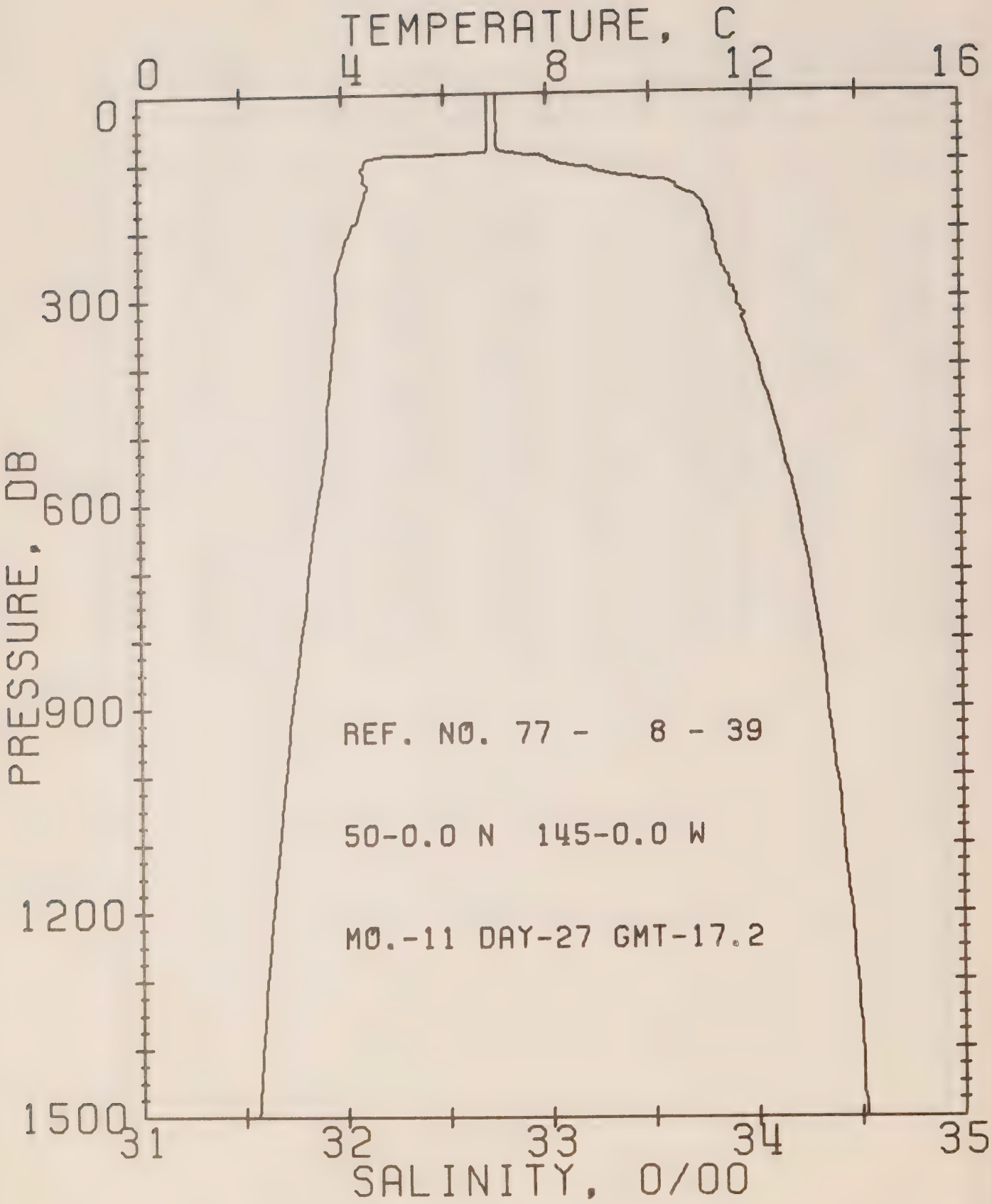
OFFSHORE OCEANOGRAPHY GROUP
REFERENCE NO. 77- 8- 36 DATE 25/11/77 STATION P
POSITION 50- 0.0N, 145- 0.0W GMT 0.5
RESULTS OF STP CAST 90 POINTS TAKEN FROM ANALOG TRACE

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.66	32.68	0	25.66	233.7	0.0	0.0	1475.
10	6.65	32.67	10	25.66	234.6	0.23	0.01	1475.
20	6.65	32.68	20	25.66	234.2	0.47	0.05	1475.
30	6.65	32.68	30	25.66	234.2	0.70	0.11	1475.
50	6.65	32.69	50	25.67	233.6	1.17	0.30	1475.
75	6.64	32.69	75	25.67	233.8	1.75	0.67	1476.
100	4.36	32.95	99	26.15	188.8	2.31	1.16	1467.
125	4.18	33.31	124	26.45	160.1	2.75	1.66	1467.
150	4.36	33.71	149	26.75	132.2	3.09	2.15	1469.
175	4.13	33.74	174	26.80	127.8	3.42	2.68	1469.
200	3.93	33.76	199	26.83	124.5	3.73	3.28	1468.
225	3.79	33.79	223	26.87	121.0	4.04	3.95	1468.
250	3.77	33.84	248	26.91	117.1	4.34	4.67	1468.
300	3.70	33.90	298	26.97	112.4	4.91	6.28	1469.


TEMPERATURE, C
0
4
8
12
16
0
300
600
900
1200
1500
PRESSURE, DB
REF. NO. 77 - 8 - 37
50-0.0 N 145-0.0 W
MO.-11 DAY-27 GMT-0.5
31
32
33
34
35
SALINITY, O/OO

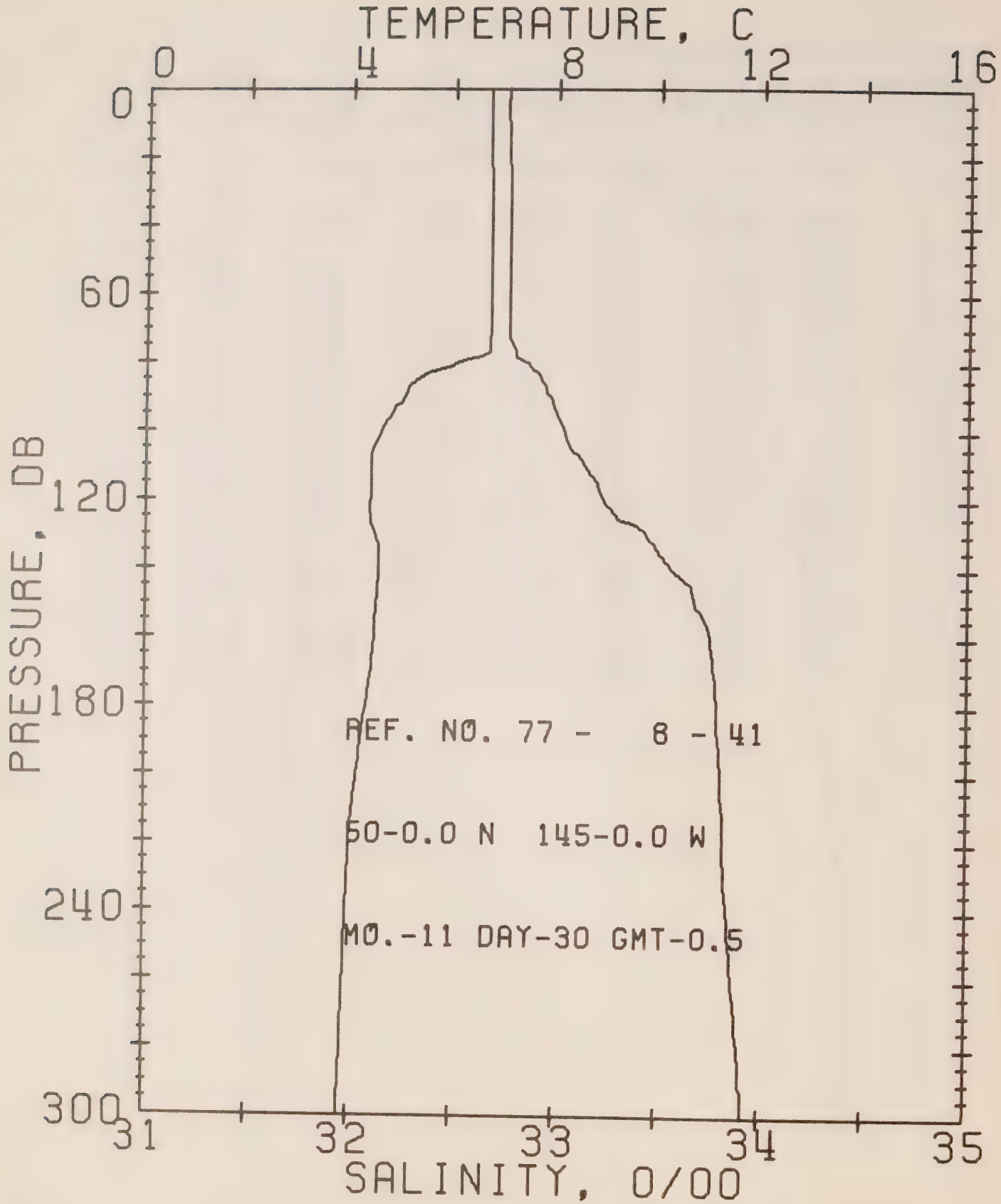
OFFSHORE OCEANOGRAPHY GROUP
REFERENCE NO. 77- 8- 37 DATE 27/11/77 STATION P
POSITION 50- 0.0N, 145- 0.0W GMT 0.5
RESULTS OF STP CAST 135 POINTS TAKEN FROM ANALOG TRACE

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.59	32.66	0	25.66	234.3	0.0	0.0	1474.
10	6.58	32.66	10	25.66	234.5	0.23	0.01	1474.
20	6.58	32.67	20	25.67	233.8	0.47	0.05	1475.
30	6.58	32.67	30	25.67	233.8	0.70	0.11	1475.
50	6.58	32.68	50	25.67	233.5	1.17	0.30	1475.
75	6.34	32.72	75	25.74	227.9	1.75	0.67	1475.
100	4.31	33.12	99	26.29	175.2	2.24	1.10	1467.
125	4.35	33.60	124	26.66	139.9	2.63	1.54	1468.
150	4.26	33.72	149	26.77	130.2	2.96	2.01	1469.
175	4.09	33.76	174	26.82	125.9	3.28	2.54	1468.
200	3.95	33.78	199	26.85	123.1	3.59	3.14	1468.
225	3.86	33.82	223	26.89	119.6	3.90	3.79	1468.
250	3.80	33.84	248	26.91	117.5	4.19	4.51	1469.
300	3.75	33.90	298	26.96	112.9	4.77	6.12	1469.
400	3.62	34.03	397	27.08	102.2	5.84	9.93	1470.
500	3.39	34.13	496	27.18	93.6	6.81	14.40	1471.
600	3.19	34.20	595	27.25	87.0	7.71	19.43	1472.
800	2.80	34.29	793	27.36	77.1	9.35	31.08	1474.
1000	2.53	34.38	990	27.46	69.2	10.81	44.41	1476.
1200	2.30	34.43	1188	27.51	64.1	12.14	59.33	1478.


TEMPERATURE, C
0
4
8
12
16
0
300
600
900
1200
1500
PRESSURE, DB
REF. NO. 77 - 8 - 39
50-0.0 N 145-0.0 W
MO.-11 DAY-27 GMT-17.2
31
32
33
34
35
SALINITY, O/OO

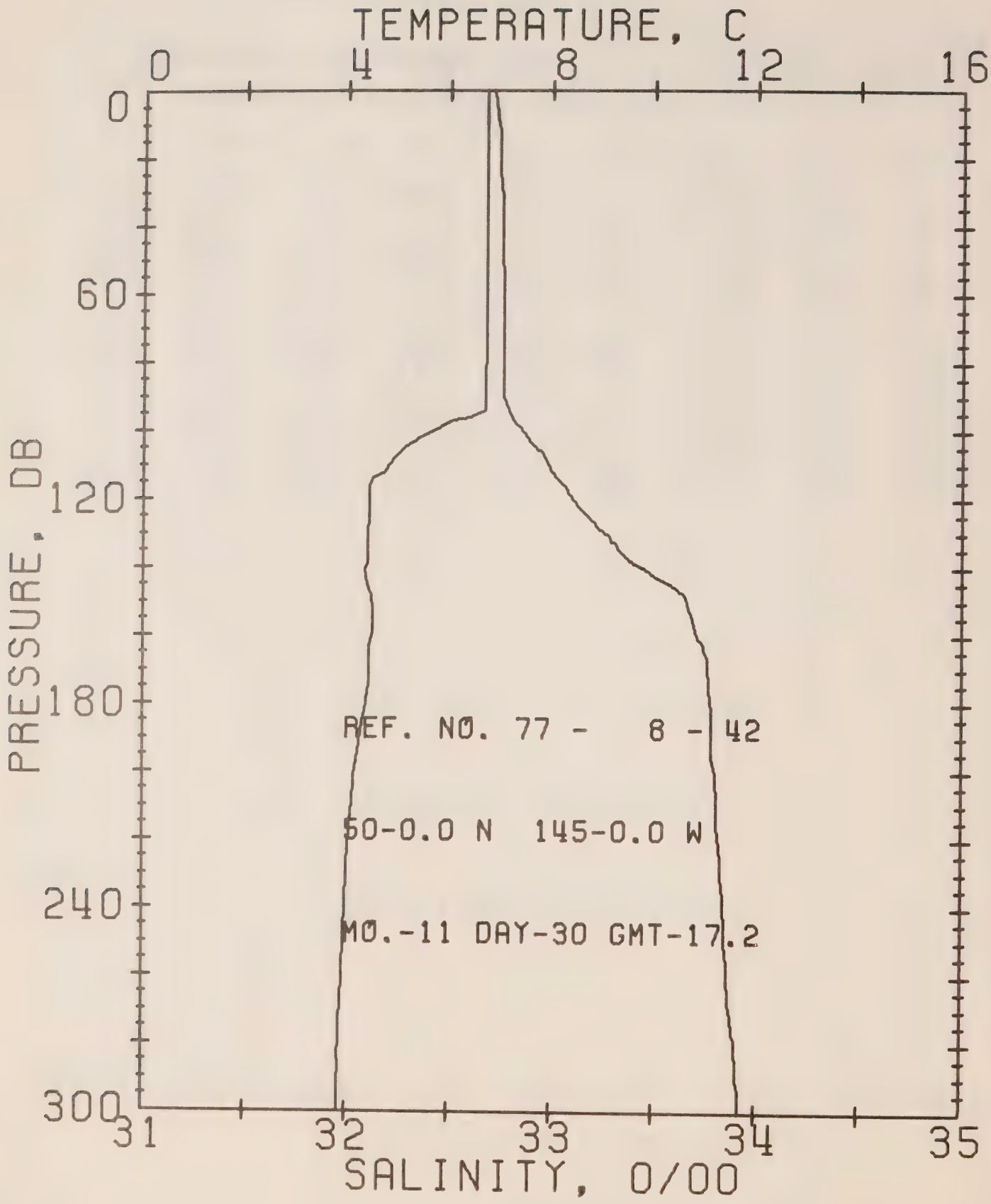
OFFSHORE OCEANOGRAPHY GROUP
REFERENCE NO. 77- 8- 39 DATE 27/11/77 STATION P
POSITION 50- 0.0N, 145- 0.0W GMT 17.2
RESULTS OF STP CAST 159 POINTS TAKEN FROM ANALOG TRACE

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.82	32.75	0	25.70	230.4	0.0	0.0	1475.
10	6.86	32.75	10	25.69	231.2	0.23	0.01	1476.
20	6.85	32.75	20	25.69	231.3	0.46	0.05	1476.
30	6.86	32.75	30	25.69	231.5	0.69	0.11	1476.
50	6.86	32.76	50	25.70	231.1	1.16	0.29	1476.
75	6.86	32.75	75	25.69	232.1	1.74	0.66	1477.
100	4.45	33.03	99	26.20	183.7	2.27	1.13	1468.
125	4.41	33.44	124	26.53	152.5	2.69	1.62	1469.
150	4.44	33.70	149	26.74	133.4	3.04	2.11	1469.
175	4.33	33.77	174	26.80	127.4	3.36	2.64	1469.
200	4.16	33.80	199	26.84	123.8	3.68	3.24	1469.
225	4.02	33.82	223	26.87	121.0	3.98	3.91	1469.
250	3.92	33.85	248	26.90	118.3	4.28	4.63	1469.
300	3.89	33.92	298	26.96	112.8	4.86	6.25	1470.
400	3.77	34.02	397	27.06	104.5	5.95	10.13	1471.
500	3.67	34.12	496	27.14	97.1	6.96	14.75	1472.
600	3.49	34.20	595	27.23	89.7	7.90	19.99	1473.
800	3.14	34.32	793	27.35	79.1	9.58	31.99	1475.
1000	2.83	34.39	990	27.44	71.6	11.09	45.78	1477.
1200	2.56	34.46	1188	27.52	64.6	12.45	61.03	1480.
1500	2.25	34.52	1483	27.59	58.2	14.28	86.18	1483.


TEMPERATURE, C
0
4
8
12
16
PRESSURE, DB
0
60
120
180
240
300
REF. NO. 77 - 8 - 41
50-0.0 N 145-0.0 W
MO.-11 DAY-30 GMT-0.5
31
32
33
34
35
SALINITY, O/OO

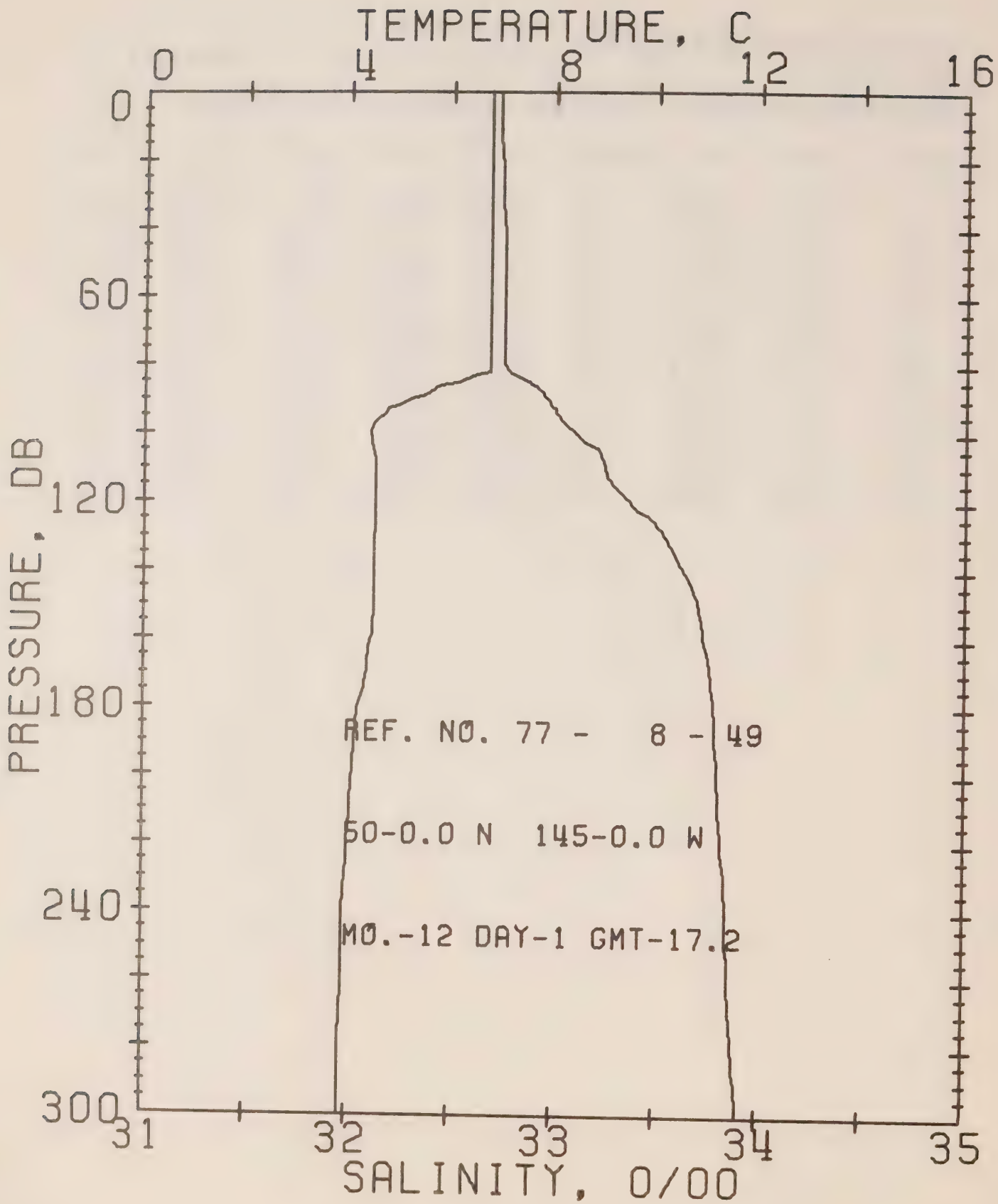
OFFSHORE OCEANOGRAPHY GROUP
REFERENCE NO. 77- 8- 41 DATE 30/11/77 STATION P
POSITION 50- 0.0N, 145- 0.0W GMT 0.5
RESULTS OF STP CAST 96 POINTS TAKEN FROM ANALOG TRACE

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.70	32.76	0	25.72	228.2	0.0	0.0	1475.
10	6.70	32.76	10	25.72	228.8	0.23	0.01	1475.
20	6.70	32.76	20	25.72	228.5	0.46	0.05	1475.
30	6.71	32.77	30	25.73	228.2	0.69	0.10	1475.
50	6.71	32.77	50	25.73	228.4	1.14	0.29	1476.
75	6.69	32.78	75	25.74	227.4	1.71	0.65	1476.
100	4.59	33.04	99	26.19	184.4	2.22	1.10	1468.
125	4.40	33.30	124	26.42	163.1	2.65	1.60	1468.
150	4.51	33.68	149	26.70	136.3	3.02	2.11	1470.
175	4.35	33.78	174	26.81	127.0	3.34	2.65	1470.
200	4.14	33.81	199	26.85	122.8	3.66	3.25	1469.
225	3.99	33.82	223	26.88	120.6	3.96	3.90	1469.
250	3.92	33.85	248	26.91	117.7	4.26	4.62	1469.
300	3.81	33.92	298	26.97	112.0	4.83	6.23	1469.


TEMPERATURE, C
0
4
8
12
16
0
60
120
180
240
300
PRESSURE, DB
REF. NO. 77 - 8 - 42
50-0.0 N 145-0.0 W
MO.-11 DAY-30 GMT-17.2
31
32
33
34
35
SALINITY, O/OO

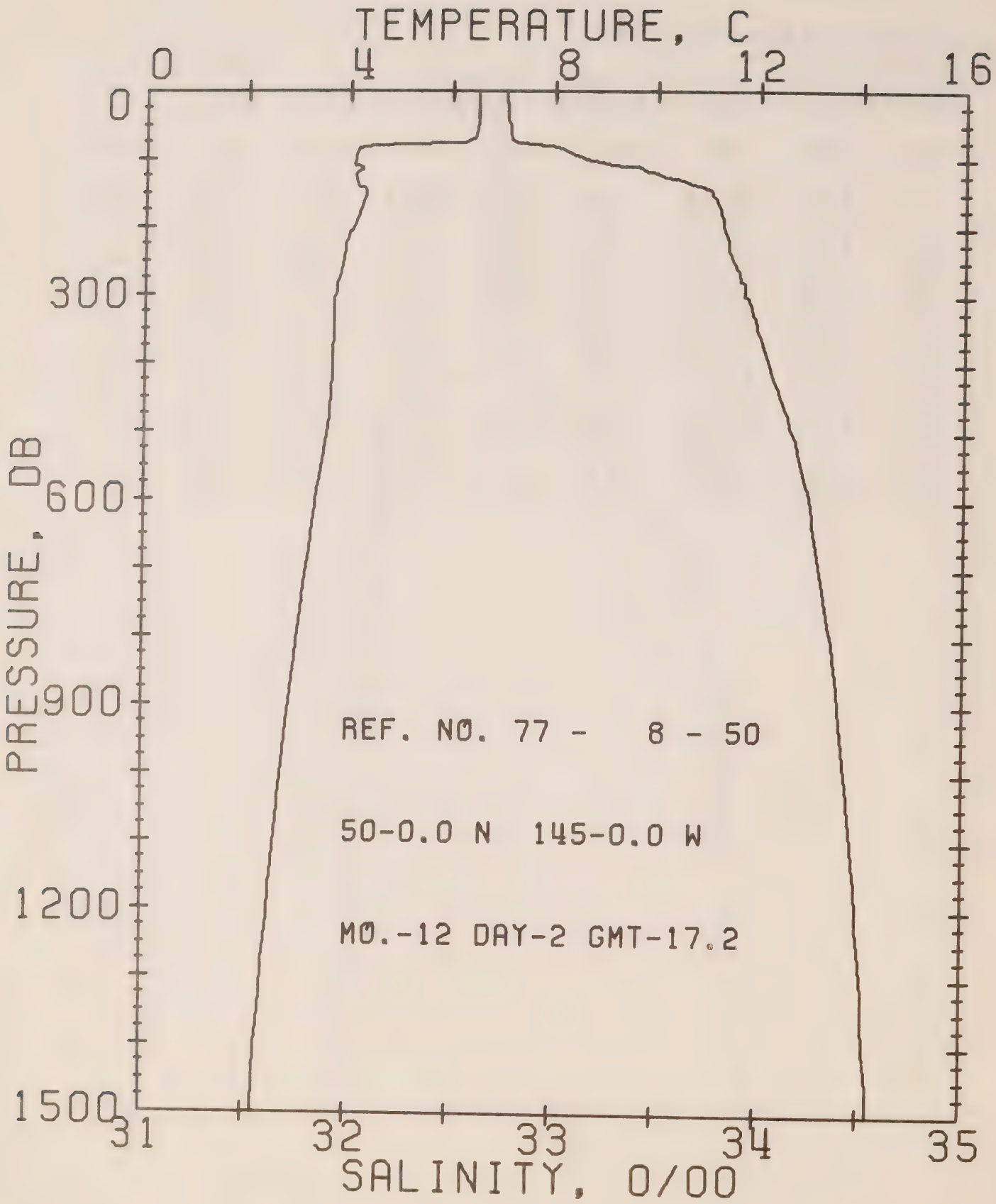
OFFSHORE OCEANOGRAPHY GROUP
REFERENCE NO. 77- 8- 42 DATE 30/11/77 STATION P
POSITION 50- 0.0N, 145- 0.0W GMT 17.2
RESULTS OF STP CAST 94 POINTS TAKEN FROM ANALOG TRACE

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.73	32.71	0	25.68	232.3	0.0	0.0	1475.
10	6.72	32.73	10	25.70	230.7	0.23	0.01	1475.
20	6.72	32.74	20	25.70	230.4	0.46	0.05	1475.
30	6.72	32.75	30	25.71	230.0	0.69	0.11	1475.
50	6.72	32.75	50	25.71	229.8	1.15	0.29	1476.
75	6.71	32.76	75	25.72	229.5	1.73	0.66	1476.
100	5.70	32.85	99	25.92	210.5	2.29	1.16	1473.
125	4.42	33.18	124	26.32	172.6	2.76	1.70	1468.
150	4.49	33.66	149	26.69	137.3	3.15	2.24	1470.
175	4.41	33.77	174	26.79	128.4	3.48	2.79	1470.
200	4.15	33.80	199	26.84	123.9	3.80	3.39	1469.
225	4.02	33.83	223	26.88	120.6	4.10	4.06	1469.
250	3.94	33.85	248	26.90	118.2	4.40	4.78	1469.
300	3.83	33.92	298	26.97	112.2	4.98	6.39	1470.


TEMPERATURE, C
0
4
8
12
16
0
60
120
180
240
300
PRESSURE, DB
REF. NO. 77 - 8 - 49
50-0.0 N 145-0.0 W
MO.-12 DAY-1 GMT-17.2
31
32
33
34
35
SALINITY, O/OO

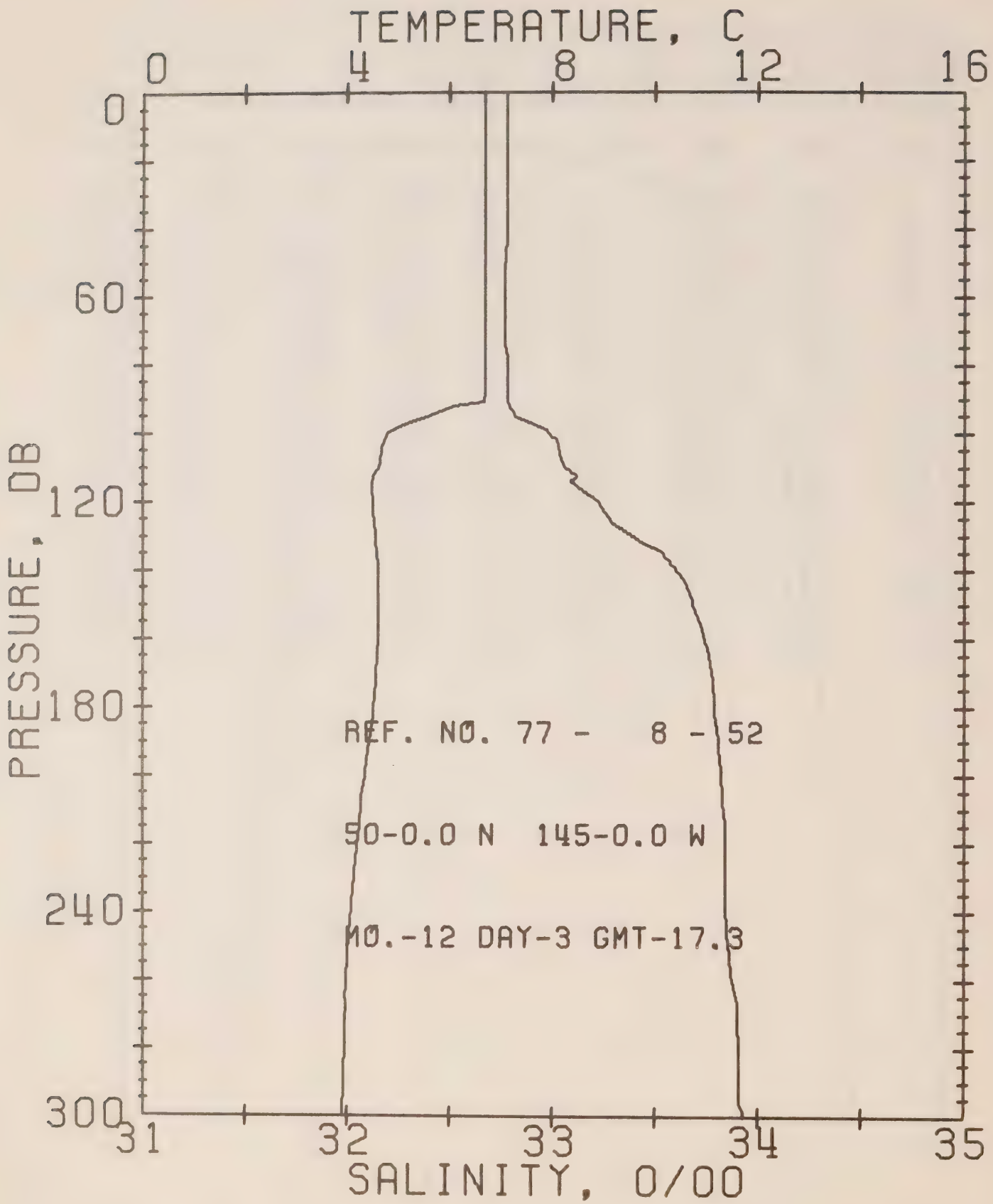
OFFSHORE OCEANOGRAPHY GROUP
REFERENCE NO. 77- 8- 49 DATE 1/12/77 STATION p
POSITION 50- 0.0N, 145- 0.0W GMT 17.2
RESULTS OF STP CAST 84 POINTS TAKEN FROM ANALOG TRACE

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.74	32.73	0	25.69	230.9	0.0	0.0	1475.
10	6.74	32.73	10	25.69	231.3	0.23	0.01	1475.
20	6.75	32.74	20	25.70	230.9	0.46	0.05	1475.
30	6.75	32.74	30	25.70	230.9	0.69	0.11	1476.
50	6.75	32.75	50	25.71	230.4	1.15	0.29	1476.
75	6.75	32.75	75	25.71	230.8	1.73	0.66	1476.
100	4.43	33.11	99	26.26	177.7	2.25	1.12	1468.
125	4.54	33.47	124	26.54	151.4	2.66	1.59	1469.
150	4.51	33.70	149	26.73	134.2	3.01	2.09	1470.
175	4.29	33.77	174	26.80	127.0	3.34	2.63	1469.
200	4.09	33.80	199	26.85	123.0	3.65	3.22	1469.
225	3.99	33.83	223	26.88	120.3	3.96	3.88	1469.
250	3.92	33.85	248	26.91	118.0	4.25	4.60	1469.
300	3.89	33.91	298	26.96	113.5	4.83	6.22	1470.


TEMPERATURE, C
0
4
8
12
16
0
300
600
900
1200
1500
PRESSURE, DB
REF. NO. 77 - 8 - 50
50-0.0 N 145-0.0 W
MO.-12 DAY-2 GMT-17.2
31
32
33
34
35
SALINITY, O/OO

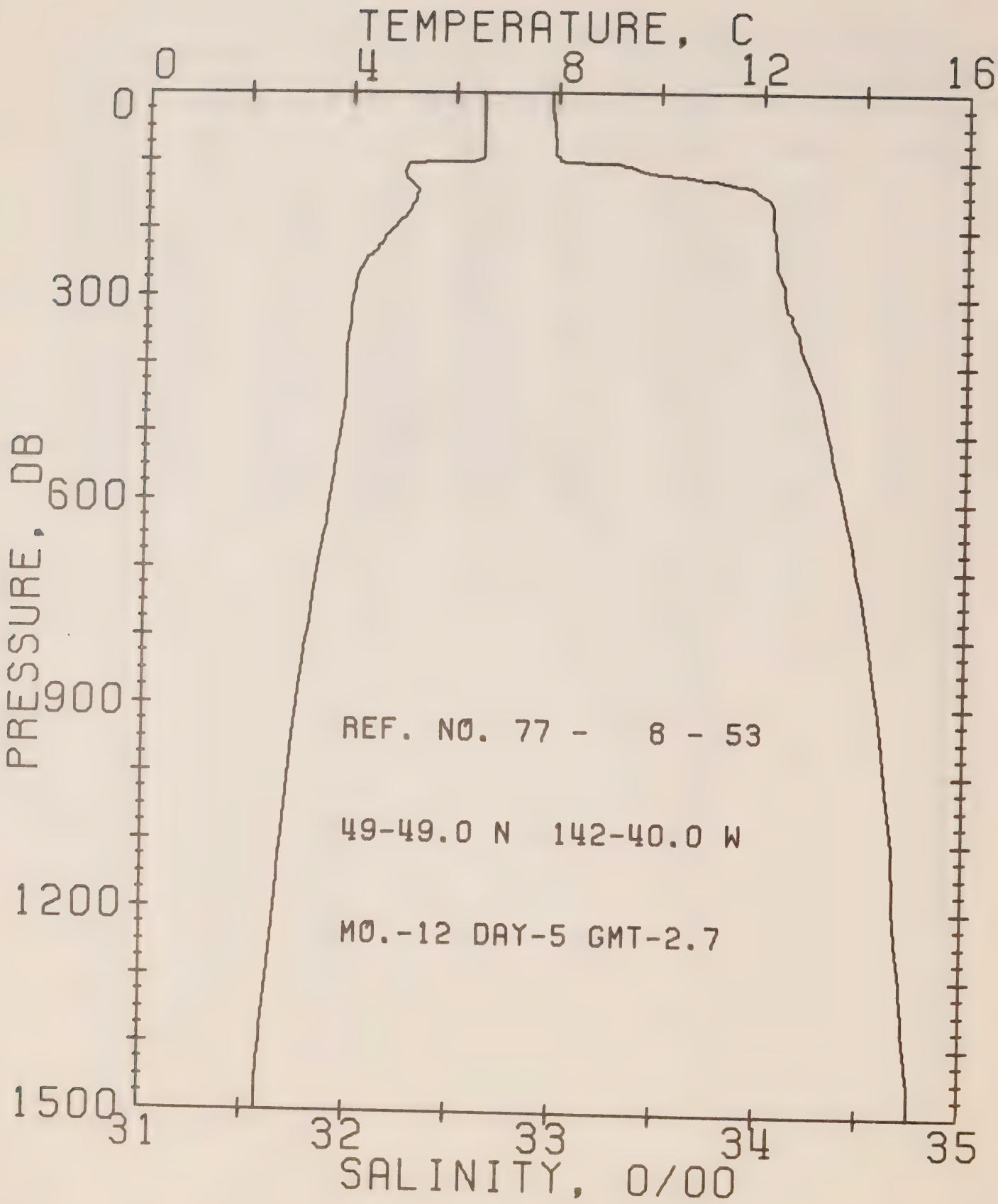
OFFSHORE OCEANOGRAPHY GROUP
REFERENCE NO. 77- 8- 50 DATE 2/12/77 STATION P
POSITION 50- 0.0N, 145- 0.0W GMT 17.2
RESULTS OF STP CAST 157 POINTS TAKEN FROM ANALOG TRACE

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.50	32.76	0	25.75	225.7	0.0	0.0	1474.
10	6.50	32.76	10	25.75	226.0	0.23	0.01	1474.
20	6.51	32.77	20	25.75	225.5	0.45	0.05	1475.
30	6.51	32.77	30	25.75	225.6	0.68	0.10	1475.
50	6.48	32.78	50	25.76	225.1	1.13	0.29	1475.
75	6.24	32.82	75	25.83	219.2	1.69	0.64	1474.
100	4.10	33.14	99	26.33	171.6	2.15	1.05	1466.
125	4.12	33.54	124	26.64	142.2	2.54	1.50	1467.
150	4.33	33.77	149	26.80	127.3	2.87	1.96	1469.
175	4.20	33.81	174	26.84	123.4	3.18	2.48	1469.
200	4.07	33.82	199	26.87	121.2	3.49	3.06	1469.
225	3.93	33.85	223	26.90	117.8	3.78	3.71	1469.
250	3.87	33.87	248	26.93	116.0	4.08	4.42	1469.
300	3.73	33.93	298	26.99	110.5	4.64	5.99	1469.
400	3.68	34.04	397	27.08	102.1	5.70	9.76	1471.
500	3.58	34.16	496	27.19	92.9	6.67	14.23	1472.
600	3.37	34.25	595	27.28	85.1	7.56	19.21	1473.
800	3.03	34.36	793	27.39	74.9	9.17	30.64	1475.
1000	2.73	34.43	990	27.48	67.8	10.59	43.67	1477.
1200	2.48	34.49	1188	27.55	61.6	11.89	58.13	1479.
1500	2.18	34.55	1483	27.62	55.2	13.63	82.04	1483.


TEMPERATURE, C
0
4
8
12
16
0
60
120
180
240
300
PRESSURE, DB
REF. NO. 77 - 8 - 52
90-0.0 N 145-0.0 W
MO.-12 DAY-3 GMT-17.3
31
32
33
34
35
SALINITY, O/OO

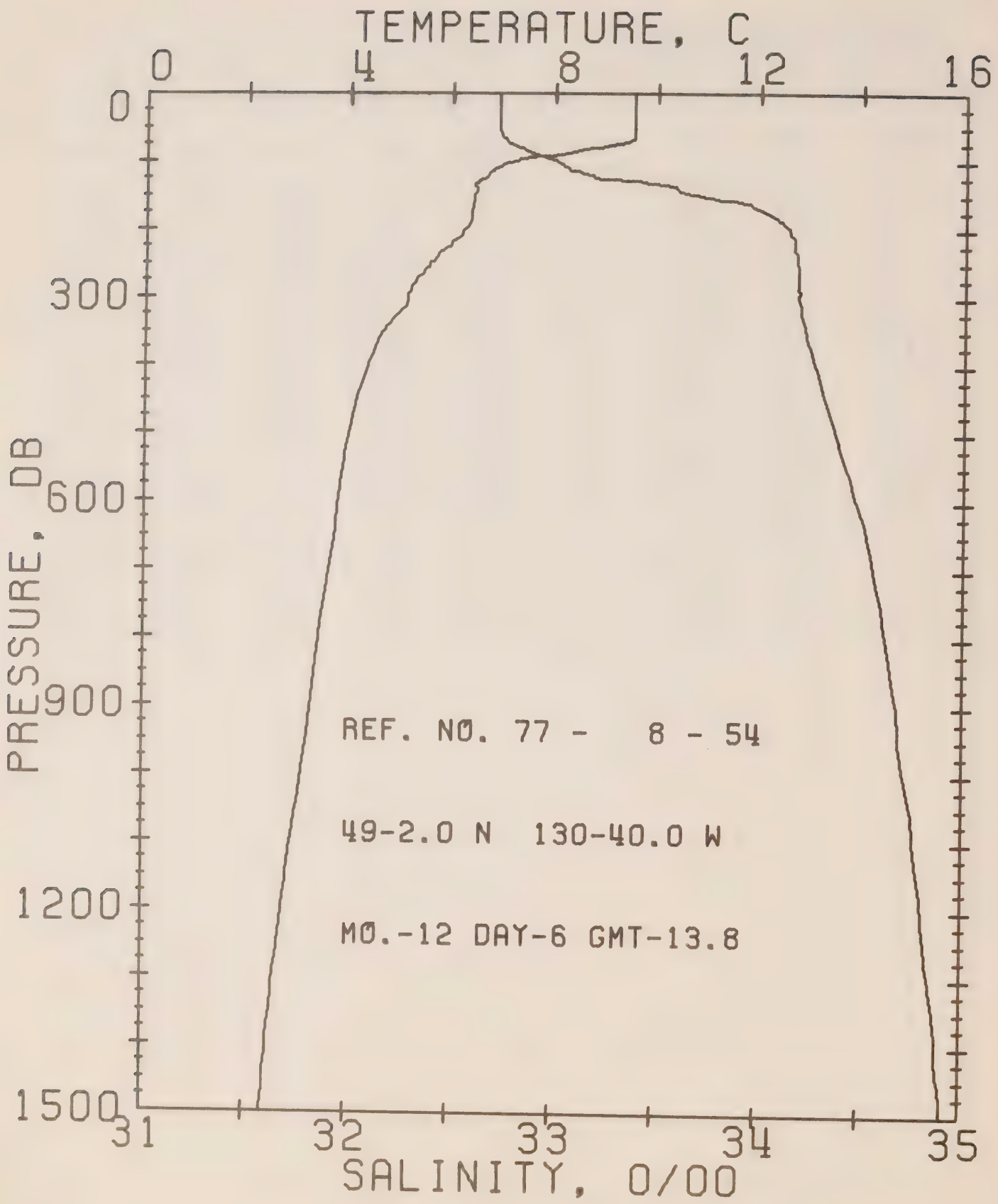
OFFSHORE OCEANOGRAPHY GROUP
REFERENCE NO. 77- 8- 52 DATE 3/12/77 STATION P
POSITION 50- 0.0N, 145- 0.0W GMT 17.3
RESULTS OF STP CAST 79 POINTS TAKEN FROM ANALOG TRACE

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.68	32.78	0	25.74	226.4	0.0	0.0	1475.
10	6.68	32.78	10	25.74	226.7	0.23	0.01	1475.
20	6.68	32.78	20	25.74	226.9	0.45	0.05	1475.
30	6.68	32.78	30	25.74	227.0	0.68	0.10	1475.
50	6.68	32.77	50	25.73	227.8	1.13	0.29	1476.
75	6.69	32.77	75	25.73	228.3	1.71	0.65	1476.
100	4.78	32.98	99	26.12	190.9	2.26	1.14	1469.
125	4.53	33.28	124	26.39	166.2	2.79	1.65	1469.
150	4.62	33.68	149	26.70	137.1	3.07	2.17	1470.
175	4.55	33.78	174	26.79	128.9	3.40	2.72	1470.
200	4.34	33.82	199	26.84	124.1	3.72	3.32	1470.
225	4.17	33.84	223	26.87	121.0	4.03	3.98	1470.
250	4.00	33.86	248	26.90	118.4	4.33	4.71	1469.
300	3.90	33.93	298	26.97	112.2	4.90	6.32	1470.


TEMPERATURE, C
0
4
8
12
16
0
300
600
900
1200
1500
PRESSURE, DB
REF. NO. 77 - 8 - 53
49-49.0 N 142-40.0 W
MO.-12 DAY-5 GMT-2.7
31
32
33
34
35
SALINITY, O/OO

OFFSHORE OCEANOGRAPHY GROUP
REFERENCE NO. 77- 8- 53 DATE 5/12/77 STATION 12
POSITION 49-49.0N, 142-40.0W GMT 2.7
RESULTS OF STP CAST 138 POINTS TAKEN FROM ANALOG TRACE

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.53	32.97	0	25.91	210.4	0.0	0.0	1475.
10	6.55	32.97	10	25.90	211.0	0.21	0.01	1475.
20	6.56	32.97	20	25.90	211.2	0.42	0.04	1475.
30	6.56	32.97	30	25.91	211.1	0.63	0.10	1475.
50	6.56	32.98	50	25.91	210.9	1.06	0.27	1475.
75	6.56	32.99	75	25.92	210.5	1.58	0.60	1476.
100	6.45	33.01	99	25.95	207.9	2.11	1.07	1476.
125	5.06	33.65	124	26.63	143.6	2.52	1.59	1472.
150	5.26	33.99	149	26.87	120.6	2.85	2.00	1473.
175	5.10	34.05	174	26.94	114.9	3.14	2.48	1473.
200	4.79	34.05	199	26.97	111.6	3.42	3.02	1472.
225	4.54	34.06	223	27.01	108.5	3.70	3.62	1472.
250	4.24	34.07	248	27.05	104.8	3.96	4.26	1471.
300	4.02	34.11	298	27.10	100.0	4.47	5.69	1471.
400	3.92	34.23	397	27.20	91.1	5.43	9.10	1472.
500	3.83	34.33	496	27.29	83.3	6.30	13.08	1473.
600	3.61	34.40	595	27.38	76.1	7.10	17.55	1474.
800	3.20	34.53	793	27.52	63.7	8.49	27.44	1475.
1000	2.85	34.62	990	27.62	54.7	9.67	38.20	1478.
1200	2.60	34.67	1188	27.68	49.4	10.70	49.75	1480.
1500	2.28	34.75	1483	27.77	41.6	12.05	68.24	1484.


TEMPERATURE, C
0
4
8
12
16
0
300
600
900
1200
1500
PRESSURE, DB
REF. NO. 77 - 8 - 54
49-2.0 N 130-40.0 W
MO.-12 DAY-6 GMT-13.8
31
32
33
34
35
SALINITY, O/OO

OFFSHORE OCEANOGRAPHY GROUP
REFERENCE NO. 77- 8- 54 DATE 5/12/77 STATION 6
POSITION 49- 2.0N, 130-40.0W GMT 13.8
RESULTS OF STD CAST 158 POINTS TAKEN FROM ANALOG TRACE

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	9.54	32.73	0	25.28	270.0	0.0	0.0	1485.
10	9.54	32.73	10	25.28	270.4	0.27	0.01	1486.
20	9.54	32.73	20	25.28	270.6	0.54	0.06	1486.
30	9.54	32.73	30	25.28	270.8	0.81	0.12	1486.
50	9.55	32.73	50	25.28	271.2	1.35	0.35	1487.
75	9.16	32.79	75	25.39	261.3	2.03	0.77	1486.
100	7.25	33.01	99	25.84	218.2	2.63	1.31	1479.
125	6.63	33.21	124	26.09	195.2	3.15	1.90	1477.
150	6.42	33.71	149	26.50	156.2	3.57	2.49	1478.
175	6.38	34.04	174	26.77	131.0	3.92	3.07	1478.
200	6.26	34.14	199	26.86	122.5	4.24	3.66	1478.
225	5.96	34.17	223	26.93	116.9	4.54	4.32	1477.
250	5.57	34.18	248	26.98	111.5	4.82	5.01	1476.
300	5.14	34.19	298	27.04	105.4	5.35	6.53	1475.
400	4.37	34.27	397	27.19	92.5	6.33	10.07	1474.
500	4.01	34.38	496	27.31	81.5	7.23	14.04	1474.
600	3.80	34.48	595	27.42	72.8	8.00	18.35	1475.
800	3.43	34.62	793	27.57	59.6	9.31	27.67	1477.
1000	3.11	34.71	990	27.67	50.6	10.41	37.72	1479.
1200	2.75	34.81	1186	27.78	41.1	11.32	47.90	1481.
1500	2.34	34.91	1483	27.90	30.5	12.38	62.44	1484.

Surface Salinity and Temperature Observations

(P-77-8)

SURFACE SALINITY AND TEMPERATURE OBSERVATIONS
CRUISE REFERENCE NUMBER 77- 8

DATE/TIME				SALINITY	TEMP	LONGITUDE
YR	MO	DY	GMT	0/00	C	WEST
77	10	21	1645	31.480		123-30
77	10	21	1815	32.143		124- 0
77	10	21	1950	32.164		124-30
77	10	21	2110	32.374		125- 0
77	10	21	2240	32.211	9.2	125-33
77	10	22	20	32.109	12.8	126- 0
77	10	22	230	32.154	13.7	126-40
77	10	22	815	32.089	12.8	128-40
77	10	22	1140	32.483	13.9	129-40
77	10	22	1510	32.513	13.8	130-40
77	10	22	1925	32.184	13.6	131-40
77	10	22	2220	32.374	13.3	132-40
77	10	23	120	32.328	13.3	133-40
77	10	23	410	32.252	12.9	134-40
77	10	23	715	32.329	12.7	135-40
77	10	23	1010	32.492	12.7	136-40
77	10	23	1330	32.534	12.2	137-40
77	10	23	1710	32.580	11.8	138-40
77	10	23	2010	32.577	11.3	139-40
77	10	23	2315	32.611	10.9	140-40
77	10	24	245	32.657		141-40
77	10	24	600	32.661		142-40
77	10	25	C	32.699		ON STATION
77	10	26	0	32.696	9.0	ON STATION
77	10	26	0	32.723	8.9	ON STATION
77	10	26	250	32.737		ON STATION
77	10	26	515	32.764		144-16
77	10	26	810	32.724		143-13
77	10	26	1450	32.665	10.0	140-26
77	10	26	1750	32.633	9.7	139-15
77	10	26	2100	32.588	11.0	138- 9
77	10	28	0	32.544	11.0	137- 3
77	10	28	300	32.535	11.5	135-51
77	10	28	545	32.350	11.5	134-50
77	10	28	845	32.376	11.5	133-37
77	10	28	1350	32.279	12.3	131-49
77	10	28	1705	32.531	12.7	131-10
77	10	28	1955	32.528		129-30
77	10	28	2300	32.194	12.2	128-28
77	10	29	145	32.168	11.7	127-21
77	10	29	445	32.145	12.2	126-16
77	10	29	800	32.122	11.8	125-14
77	10	29	2045	31.992		123-30
77	10	30	225	32.196		125-33

SURFACE SALINITY AND TEMPERATURE OBSERVATIONS
CRUISE REFERENCE NUMBER 77- 8

DATE/TIME				SALINITY	TEMP	LONGITUDE
YR	MO	DY	GMT	0/00	C	WEST
77	10	30	400	32.175		126- 0
77	10	30	530	32.234		126-40
77	10	30	1035	32.164		127-40
77	10	30	1820	32.297		128-40
77	10	31	210	32.486		130-40
77	10	31	930	32.430		132-40
77	10	31	1550	32.335		134-40
77	10	31	2230	32.516		136-40
77	11	1	435	32.618		138-40
77	11	1	1145	32.613		140-40
77	11	1	2305	32.688		142-40
77	11	3	0	32.718	8.0	ON STATION
77	11	4	0	32.712	7.9	ON STATION
77	11	5	0	32.714	8.0	ON STATION
77	11	6	0	32.727	7.8	ON STATION
77	11	7	0	32.724	7.9	ON STATION
77	11	8	0	32.708	7.8	ON STATION
77	11	9	0	32.726	7.7	ON STATION
77	11	10	0	32.722	7.6	ON STATION
77	11	11	0	32.755	7.3	ON STATION
77	11	12	0	32.725	7.6	ON STATION
77	11	13	0	32.727	7.7	ON STATION
77	11	14	0	32.728		ON STATION
77	11	15	0	32.741	7.2	ON STATION
77	11	16	0	32.734	7.3	ON STATION
77	11	17	0	32.760	7.3	ON STATION
77	11	18	0	32.766	7.0	ON STATION
77	11	19	0	32.759	7.0	ON STATION
77	11	20	0	32.763	7.0	ON STATION
77	11	21	0	32.769	6.8	ON STATION
77	11	22	0	32.777	7.0	ON STATION
77	11	23	0	32.762	6.9	ON STATION
77	11	24	0	32.754	6.9	ON STATION
77	11	26	0	32.766	6.9	ON STATION
77	11	26	0	32.761	7.0	ON STATION
77	11	27	0	32.761	7.0	ON STATION
77	11	28	0	32.750	6.9	ON STATION
77	11	29	0	32.749	6.8	ON STATION
77	11	30	0	32.754	6.7	ON STATION
77	12	1	0	32.730	6.8	ON STATION
77	12	2	0	32.748	6.7	ON STATION
77	12	3	0	32.748	6.6	ON STATION
77	12	4	0	32.762	6.4	ON STATION
77	12	4	2300	32.740		143-40

SURFACE SALINITY AND TEMPERATURE OBSERVATIONS
CRUISE REFERENCE NUMBER 77- 8

DATE/TIME				SALINITY	TEMP	LONGITUDE
YR	MO	DY	GMT	0/00	C	WEST
77	12	5	240	32.764	6.6	142-40
77	12	5	710	32.679		141-40
77	12	5	1015	32.640		140-40
77	12	5	1300	32.658	7.7	139-40
77	12	5	1705	32.587		138-40
77	12	5	2100	32.547	8.7	137-40
77	12	5	2340	32.354	8.4	136-40
77	12	6	215	32.381	8.3	135-40
77	12	6	500	32.477	8.3	134-40
77	12	6	745	32.482	8.6	133-40
77	12	6	1010	32.455	9.3	132-40
77	12	6	1245	32.393	8.8	131-40
77	12	6	1350	32.468	9.7	130-40
77	12	6	2015	32.459	9.4	129-40
77	12	6	2355	32.374	9.7	128-40
77	12	7	145	32.362	9.8	127-40
77	12	7	415	32.292	9.3	126-40
77	12	7	610	32.234	9.5	126- 0
77	12	7	720	31.047	9.7	125-33
77	12	7	850	31.860		125- 0
77	12	7	1025	29.572		124-30
77	12	7	1245	30.681		124- 0

b DENOTES SALINITY SAMPLE TAKEN FROM A BUCKET. ALL OTHER SAMPLES TAKEN FROM THE SEAWATER LOOP

List of Omissions from Data

Hydrographic Data:

Consec. #	Depth (m)	Temp.	Sal.	O_2	Notes 1.	2.	3.	Comments
6	239		*					No sample
	239			*				No sample
	4064			*	*			

Notes (MacNeill, 1977):

1. The data is suspect because of a reversal of gradient by >.01 °/oo (salinity) or >.08 ml/ℓ (oxygen).

2. The data is deleted because of very irregular data values (usually a mistripping or leaking bottle if both oxygen and salinity are irregular).

3. The data is deleted because duplicate samples at a depth were not within .01 °/oo (salinity) or .08 ml/ℓ (oxygen).

STD Data:

Consecutive Number	Comments
4, 5 and 7	Salinity omitted; off scale

Note: Consecutive numbers 12-17, 25-30 and 43-48 are part of the MILE program and not included in this report.

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OCEANOGRAPHIC OBSERVATIONS AT OCEAN STATION P

2 December 1977 - 11 January 1978
Volume 87

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by

Seakem Oceanography Ltd.

INSTITUTE OF OCEAN SCIENCES, PATRICIA BAY
Sidney, B.C.

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1978

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in accordance with accepted bibliographic custom.

ABSTRACT

Physical, chemical and biological oceanographic observations are made from the weathership at Ocean Weather Station Papa, and between Esquimalt and Station Papa, on a routine continuing basis. Physical oceanography data only are shown, including surface observations and profiles obtained with bottle casts and conductivity-temperature-pressure instruments.

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INTRODUCTION

Canadian operation of Ocean Weather Station P (Latitude 50°00'N, Longitude 145°00'W) was inaugurated in December, 1950. The station is occupied primarily to make meteorological observations of the surface and upper air and to provide an air-sea rescue service. The station is manned by two vessels operated by the Marine Services Branch of the Ministry of Transport. They are the CCGS Vancouver and the CCGS Quadra. Each ship remains on station for a period of six weeks, and is then relieved by the alternate ship, thus maintaining a continuous watch.

Bathythermograph observations have been made at Station P since July 1952. A program of more extensive oceanographic observations commenced in August 1956. This was extended in April 1959, by the addition of a series of oceanographic stations along the route to and from Station P and Swiftsure Bank. These stations are known as Line P stations. The number of stations on Line P has been increased twice and now consists of twelve stations (Fig. 1). Bathythermograph observations and surface salinity sample collections, in addition to being made on Line P oceanographic stations, are also made at odd meridians at 40', i.e. 139°40'W, 141°40'W, etc. These stations are known as Line P BT stations. Data observed prior to 1968 have been indexed by Collins et al (1969).

The present record includes hydrographic, continuously sampled STP and surface salinity and temperature data collected from the CCGS Vancouver during the period 2 December 1977 to 11 January 1978.

All physical oceanographic data have been stored by the Canadian Oceanographic Data Centre (CODC), 615 Booth Street, Ottawa, Ontario, Canada. Requests for these data should be directed to CODC.

Biological and productivity data are published in the Manuscript Report series of the Fisheries Research Board of Canada (FRB), Pacific Biological Station, Nanaimo, British Columbia, Canada. Requests for these data should be directed to FRB.

Marine geochemical data are for the Ocean Chemistry Group, Ocean and Aquatic Sciences, Environment Canada, Institute of Ocean Sciences, P.O. Box 6000, Sidney, B.C., V8L 4B2.

PROGRAM OF OBSERVATION FROM CCGS VANCOUVER, 2 December 1977 - 11 January 1978 (P-77-9) (CODC Ref. No. 15-77-009).

Oceanographic observations were made by Mr. C. Jackson of Seakem Oceanography Ltd., Victoria, B.C.

En Route to Station P

Line P Stations 11 and 12 were occupied and an STP profile made to 1500 metres or near bottom. No hydrocasts or other STP's were made because of rough weather.

Samples for nitrates, nutrients, alkalinity and total CO_2 were collected from the seawater loop or by bucket at all whole stations except Stations 6, 8 and 9 (too rough to go on deck). Samples for salinity were collected from the seawater loop at Stations 11 and 12 and from a bucket at Stations 1 to 5½, 6½ to 7½, 10, 10½, 11½ and 12½. Surface bucket temperatures were taken at Stations 1 to 5½, 6½ to 7½, and 10 to 12½.

A surface tarball tow was made at Station 12.

The surface temperature recorder and PCO_2 system were run continuously. The thermosalinograph was run only from Station 11 to 12½ because of problems with the loop.

XBT's were taken at Stations 1 to 5½, 7½, 10 to 10½ and 11½. BT's were taken at Stations 11, 12 and 12½. It was too rough for XBT's at Stations 6 and 8 to 9½. The XBT launcher failed at Stations 6½ and 7.

On Station P

The oceanographic program was carried out as follows:

Physical Oceanography:

1) Profiles of salinity, temperature and oxygen were obtained from 5 hydrographic casts to near bottom (4200 metres).

2) Twenty-two STP profiles to (or close to) 1425 metres and 3 to 300 metres were obtained.

3) BT's or XBT's were taken every three hours to coincide with meteorological observations, encoded and transmitted according to the IGOSS format.

4) Seventeen profiles to 300 metres were obtained for the MILE program.

Marine Geochemistry:

1) Nutrient and salinity samples were collected daily at 0000 hrs GMT from the seawater loop. One 24 hour series of nutrient samples was completed with a sample taken every hour from the seawater loop. Two profiles for nutrients to 500 m and one profile for tritium to 500 m were taken. One loop sample and 5 rainwater samples were also collected for tritium.

2) Alkalinity and total CO_2 samples were taken every 3 days from the seawater loop or bucket and in addition, 2 profiles each to 500 m were taken.

3) Air CO_2 samples were taken in quadruplicate at weekly intervals on Sunday, with extra samples taken on Thursdays. Five-litre flasks were filled once a week.

4) Four surface tarball tows were completed.

5) Two seawater C-14 samples were taken from the seawater loop along with 2 seawater C-13 and 4 air C-13 samples.

6) PCO_2 carboys were filled every 3 days when the loop system was operational.

7) Four Pb^{210} rainwater samples were collected.

Biological Oceanography:

Samples were obtained as follows:

1) Twenty-one 150 metre vertical plankton hauls.
Two 1200 metre vertical plankton hauls.

Three groups of subsurface plankton hauls were taken on 3 consecutive nights at sunset.

2) Three profiles to 200 metres for each of plant pigment, nitrate and chlorophyll a were obtained, as well as 2 surface samples each.

3) Five Secchi disc readings were taken at local noon.

En Route from Station P

Line P Stations 9 to 1 were occupied and an STP profile made to 1425 m (or near bottom). No hydrocasts were made. Rough weather cancelled STP's on Stations 12 to 10.

Samples for nitrates, nutrients, alkalinity, and total CO_2 were collected from the seawater loop at all whole stations. Samples for salinity were collected from the seawater loop at Stations 9 to 1 and from a bucket at Stations 12½ to 9½, half Stations 8½ to 5½ and Stations 5 to 1. Surface bucket temperatures were taken at all whole and half stations.

A surface tarball tow was made at Stations 6, 4 and 2.

The surface temperature recorder and PCO_2 system were run continuously. The thermosalinograph was run while stopped on Stations 9 to 6 and continuously from Station 5.

XBT's were taken at Stations 12½ to 9½, 8½, 7½, 6½ and 5½. BT's were taken at Stations 9 to 1.

Observations for Other Agencies

1) Marine mammal observations were made by the ship's officers for Mr. I. McAskie, Fisheries Research Board of Canada, Pacific Biological Station, Nanaimo, B.C., Canada.

2) Bird observations were made by the ship's officers for Dr. M. Myres, University of Alberta, Calgary, Alberta, Canada and Mr. J. Guiguet, Curator of Birds and Mammals, Provincial Museum, Department of Provincial Secretary and Travel Industry, Victoria, British Columbia, Canada.

3) Air CO_2 samples were taken weekly in duplicate for Scripps Institution of Oceanography, La Jolla, California, U.S.A.

Data were processed for publication by Ms. M. Sainsbury of Seakem Oceanography Ltd., Sidney, B.C.

OBSERVATIONAL PROCEDURES

Observations for salinity, oxygen and temperature from all hydrographic casts, including the surface, were obtained with Niskin water sample bottles equipped with either Richter and Wiese and/or Yoshino Keiki Co. reversing thermometers. Two protected thermometers were used on all bottles and one unprotected thermometer was used on each bottle at depths of 300 m or greater. The accuracy of protected reversing thermometers is believed to be $\pm 0.02^{\circ}C$.

The daily surface water temperatures were measured from a bucket sample using a deck thermometer of $\pm 0.1^{\circ}C$ accuracy. The daily surface salinity samples were obtained from the seawater loop. When the seawater loop was not operational these samples were obtained with a bucket, and are indicated with a 'b' in this data record.

Salinity determinations were made aboard ship with either an Autolab Model 601 Mark III inductive salinometer or a Hytech Model 6220 lab salinometer. Accuracy using duplicate determinations is estimated to be ± 0.003 $^{o}/oo$.

Depth determinations were made using the "depth difference" method described in the U. S. N. Hydrographic Office Publication No. 607 (1955). Depth estimates have an approximate accuracy of ±5 m for depths less than 1000 m, and ±0.5% of depth for depths greater than 1000 m.

The dissolved oxygen analyses were done in shipboard laboratory by a modified Winkler method (Carpenter, 1955).

Line P engine intake continuous temperature on both ships was recorded by a Honeywell Electronik 15 Recorder. The temperature probe is at a depth of approximately 3 metres below the sea surface and the instrument accuracy is believed to be $\pm 0.1^{\circ}C$.

Each ship is equipped with a Plessey Model 6600-T thermosalinograph which is used, on Line P, for continuous recording of surface temperatures and salinities from the ship's seawater loop. The temperature probe is mounted

at the seawater loop intake (approximately 3 metres below the surface) and the salinity probe and recorder are situated in the dry lab. The accuracy of this instrument is believed to be ±0.1 °C for temperature and ±0.1 °/oo for salinity.

STP profiles were taken with a Guildline Model 8700 STP system.

COMPUTATIONS

All hydrographic data were processed with the aid of an IBM 370 computer and a UNIVAC 1100 computer. Reversing thermometer temperature corrections, thermometric depth calculations and accepted depth from the "depth difference" method were computed. Extraneous thermometric depths caused by thermometer malfunctions were automatically edited and replaced. A Calcomp 565 Offline Plotter was used to plot temperature-salinity, and temperature-oxygen diagrams, as well as plots of temperature, salinity, and dissolved oxygen vs $\log_{10}$ depth. These plots were used to check the data for errors.

Missing hydrographic data were obtained using a weighted parabolas interpolation method (Reiniger and Ross, 1968). These data are indicated with an asterisk in this data record.

Data values which we suspect but which we have included in this data record are indicated with a plus. These data have been removed from punch card and magnetic tape records.

Analog records from the salinity-temperature-pressure instrument have been machine digitized, then replotted using the Calcomp plotter.

Digitization was continued until original and computer plotted traces were coincident. Temperature and salinity values were listed at standard pressures; integrals (depths, geopotential anomaly, and potential energy anomaly) were computed from the entire array of digitized data.

The headings for the data listings are explained as follows:

PRESS	is pressure (decibars)
TEMP	is temperature (degrees Celsius)
SAL	is salinity (parts per thousand)
DEPTH	is reported in metres
SIGMA-T	is specific gravity anomaly
SVA	is specific volume anomaly
THETA	is potential temperature (degrees Celsius)
SVA (THETA)	is potential specific volume anomaly
DELTA D	is geopotential anomaly (J/kg)
POT EN	is potential energy in units of 10^8 ergs/cm^2
OXY	is the concentration of dissolved oxygen expressed in millilitres per litre
SOUND	is the velocity of sound in m/sec

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Carpenter, J.H., 1965. The Chesapeake Bay Institute technique for the Winkler dissolved oxygen method. Limnol. and Oceanogr. 10: 141-143.

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MacNeill, M., 1977. A study of anomalous salinity and oxygen values in the deep water at Ocean Station P from 1960-1976.(unpublished manuscript) Pacific Marine Science Report 77-9.

Reiniger, R.F. and C.K. Ross, 1968. A method of interpolation with application to oceanographic data. Deep Sea Res. 15: 185-193.

U. S. N. Hydrographic Office, 1955. Instruction Manual for oceanographic observations. Publ. No. 607.

LOG OF HYDROGRAPHIC AND STD OBSERVATIONS

Consec #	Positions	Date (Z)	Time (Z)	STD (m)	Hydrocast (m)	Comments
001	140-40°W	05/12/77	0042	1,400		
002	142-40°W	05/12/77	0715	1,230		
003	P	07/12/77	0217	300		
004	P	07/12/77	1721	1,425	4,200	T,S,O_2,Alk, Nutrients
005	P	07/12/77	1908			
006	P	11/12/77	1747	1,377		
007	P	12/12/77	1721	1,425		
008	P	12/12/77	1923		4,200	T,S,O_2,Alk, Total CO_2
009	P	13/12/77	1729	1,325		
010	P	16/12/77	1748	1,360		
011	P	17/12/77	0138	300		
012	W3	17/12/77	0519	300		MILE grid
013	W4	17/12/77	0750	300		
014	C1	17/12/77	0921	300		
015	E4	17/12/77	1206	300		
016	E3	17/12/77	1519	300		
017	P	17/12/77	2323	1,400		
018	P	18/12/77	1715			
019	P	18/12/77	1853		4,200	T,S,O_2,Alk, Nutrients
020	P	19/12/77	1725	1,320		
021	P	21/12/77	1809	1,115		
022	P	22/12/77	1721	300		
023	P	23/12/77	0716	300		
024	P	23/12/77	1715	1,425		
025	P	24/12/77	1724	1,425		
026	P	24/12/77	1859		4,200	T,S,O_2,Alk, Total CO_2
027	P	25/12/77	1525	1,400		
028	P	26/12/77	1725	1,400		
029	P	27/12/77	1720	1,390		
030	P	28/12/77	1733	1,425		
031	W3	29/12/77	0325	300		MILE grid
032	W4	29/12/77	0655	300		
033	C1	29/12/77	0845	300		
034	E4	29/12/77	1023	300		
035	E3	29/12/77	1203	300		
036	P	29/12/77	1415	1,425		
037	P	30/12/77	1721	1,425		
038	P	31/12/77	1732	1,425		
039	P	01/01/78	1801		4,200	T,S,O_2,Alk
040	P	02/01/78	2315	1,425		
041	P	03/01/78	1724	1,225		
042	P	04/01/78	1725	1,310		
043	W3	05/01/78	0255	300		MILE grid

Consec #	Positions	Date (Z)	Time (Z)	STD (m)	Hydrocast (m)	Comments
044	W4	05/01/78	0535	300		MILE grid
045	C1	05/01/78	0815	300		
046	E4	05/01/78	1031	300		
047	E3	05/01/78	1211	300		
048	E3	05/01/78	1228	300		
049	P	05/01/78	1428	1,425		
050	136-40°W	09/01/78	1528	300		
051	134-40°W	09/01/78	2129	1,425		
052	132-40°W	10/01/78	0358	1,425		
053	130-40°W	10/01/78	1031	1,425		
054	128-40°W	10/01/78	1713	1,425		
055	127-40°W	10/01/78	2144	1,425		
056	126-40°W	11/01/78	0147	1,200		
057	126-00°W	11/01/78	0447	80		
058	125-33°W	11/01/78	0706	90		

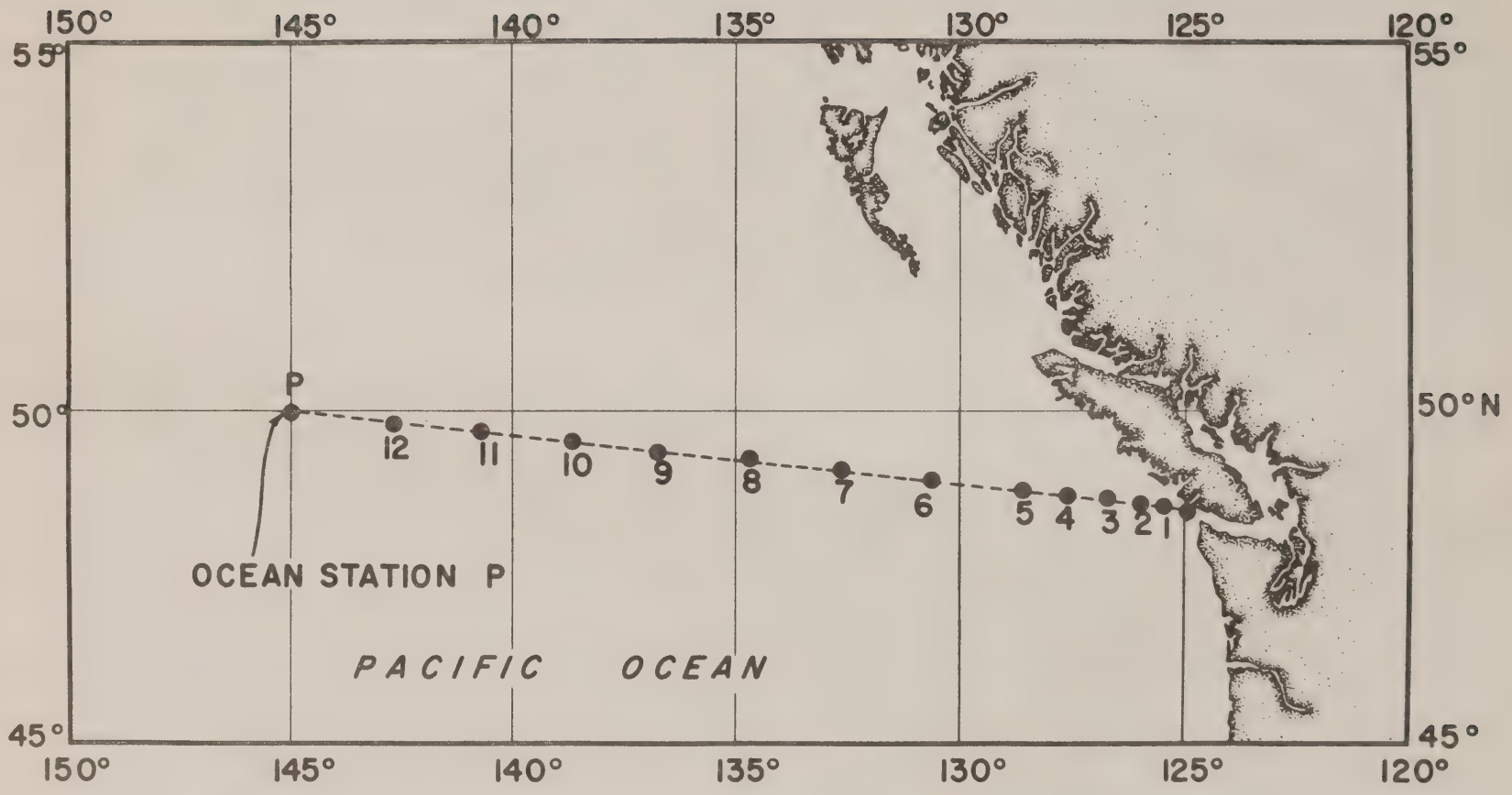


Fig. 1 Chart showing Line P station positions.

Oceanographic Data Obtained on Cruise P-77-9

(CODC Reference No. 15-77-009)

Results of Hydrographic Observations

(P-77-9)

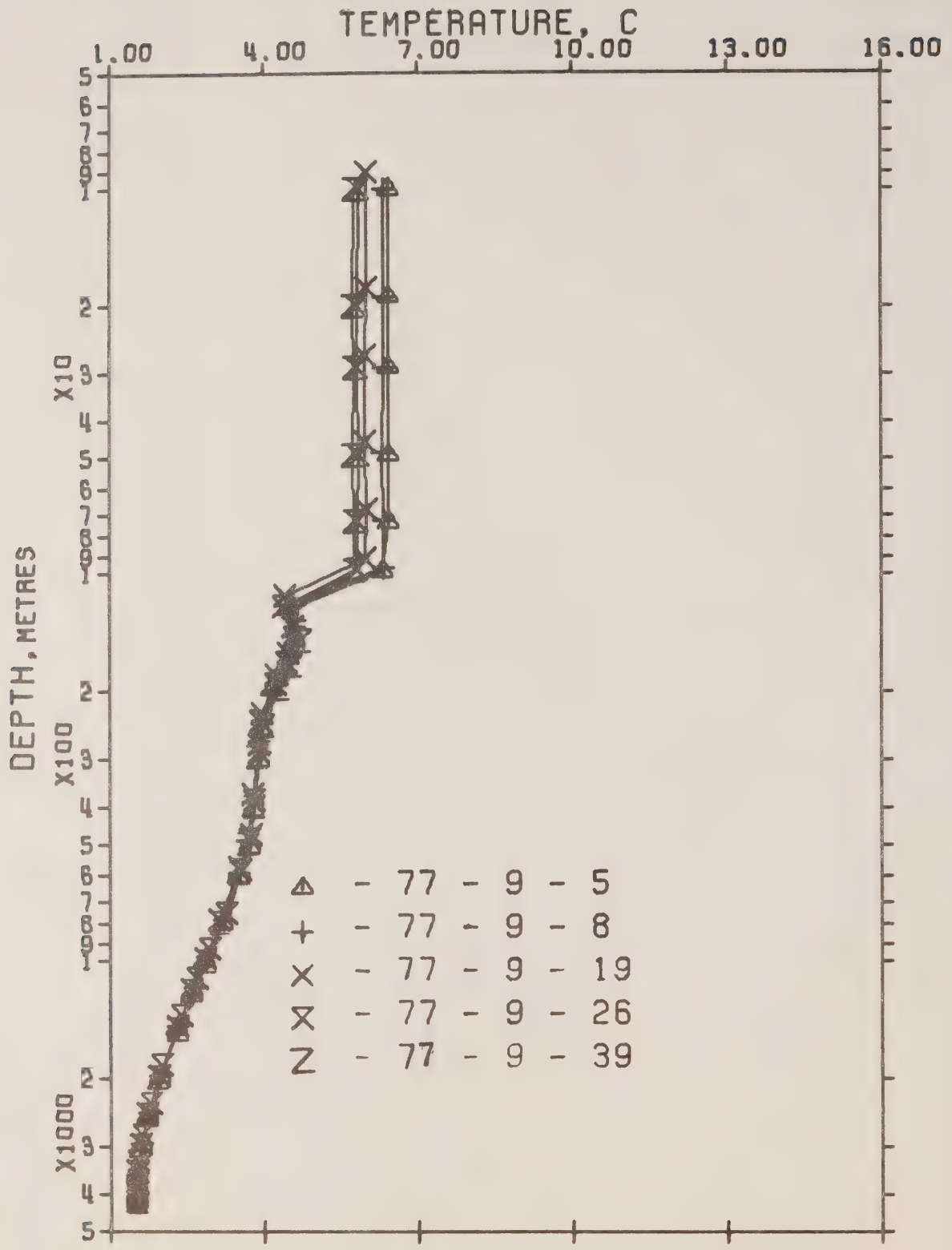


Figure 2. Composite plot of temperature vs $\log_{10}$ depth for Station P. P-77-9.

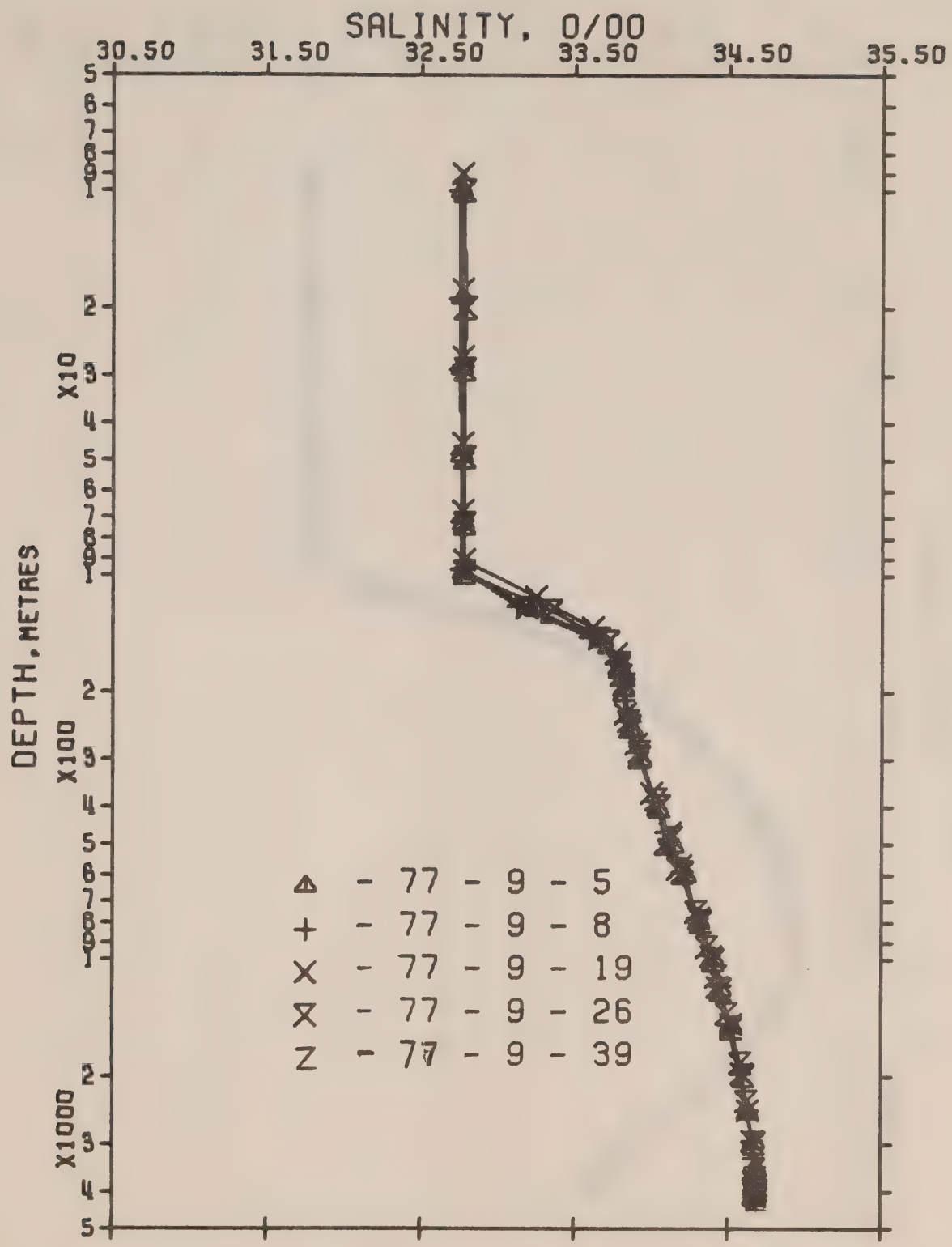


Figure 3. Composite plot of salinity vs $\log_{10}$ depth for Station P. P-77-9.

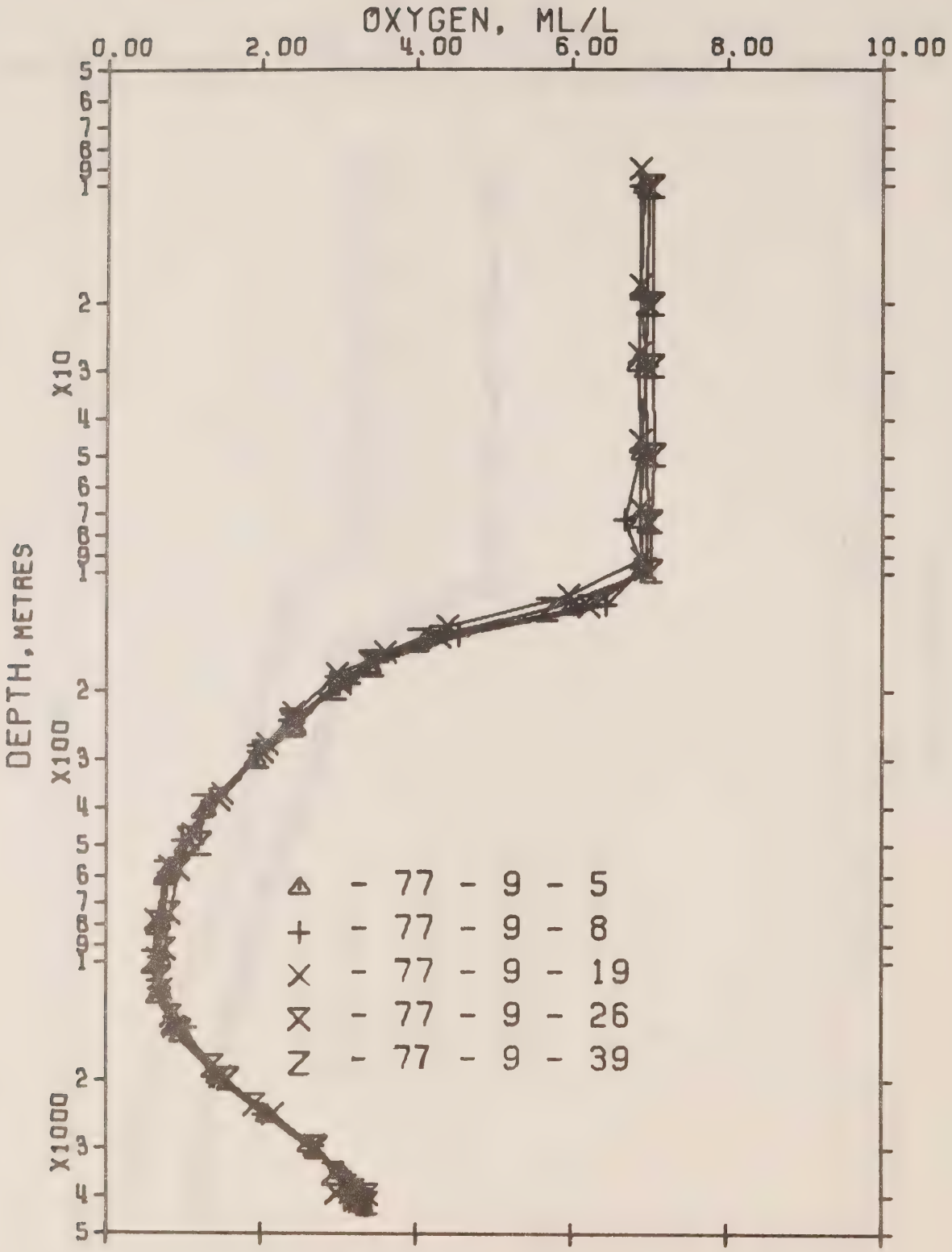
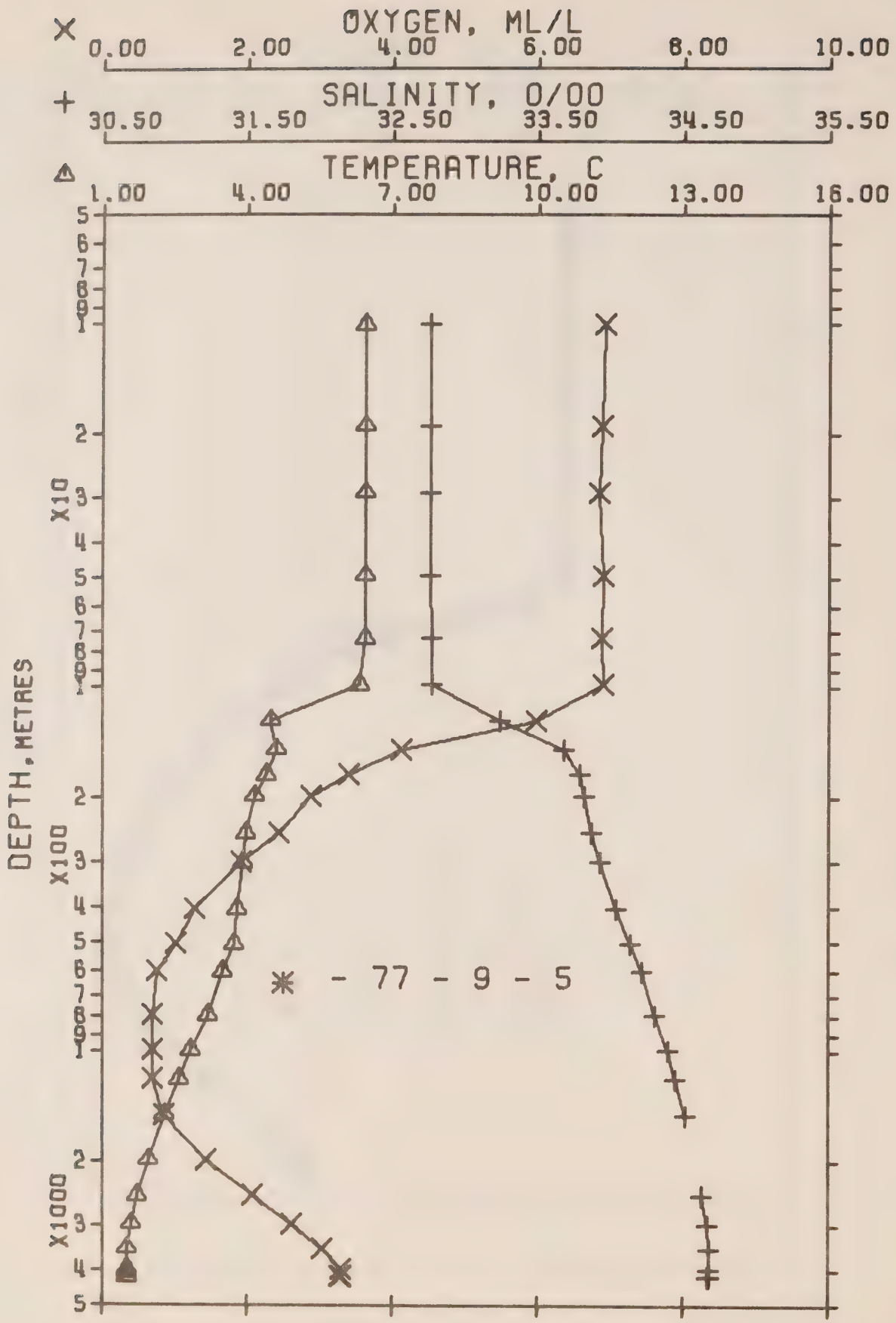


Figure 4. Composite plot of oxygen vs $\log_{10}$ depth for Station P. P-77-9.


OXYGEN, ML/L
0.00
2.00
4.00
6.00
8.00
10.00
SALINITY, O/OO
30.50
31.50
32.50
33.50
34.50
35.50
TEMPERATURE, C
1.00
4.00
7.00
10.00
13.00
16.00
DEPTH, METRES
X10
X100
X1000
* - 77 - 9 - 5

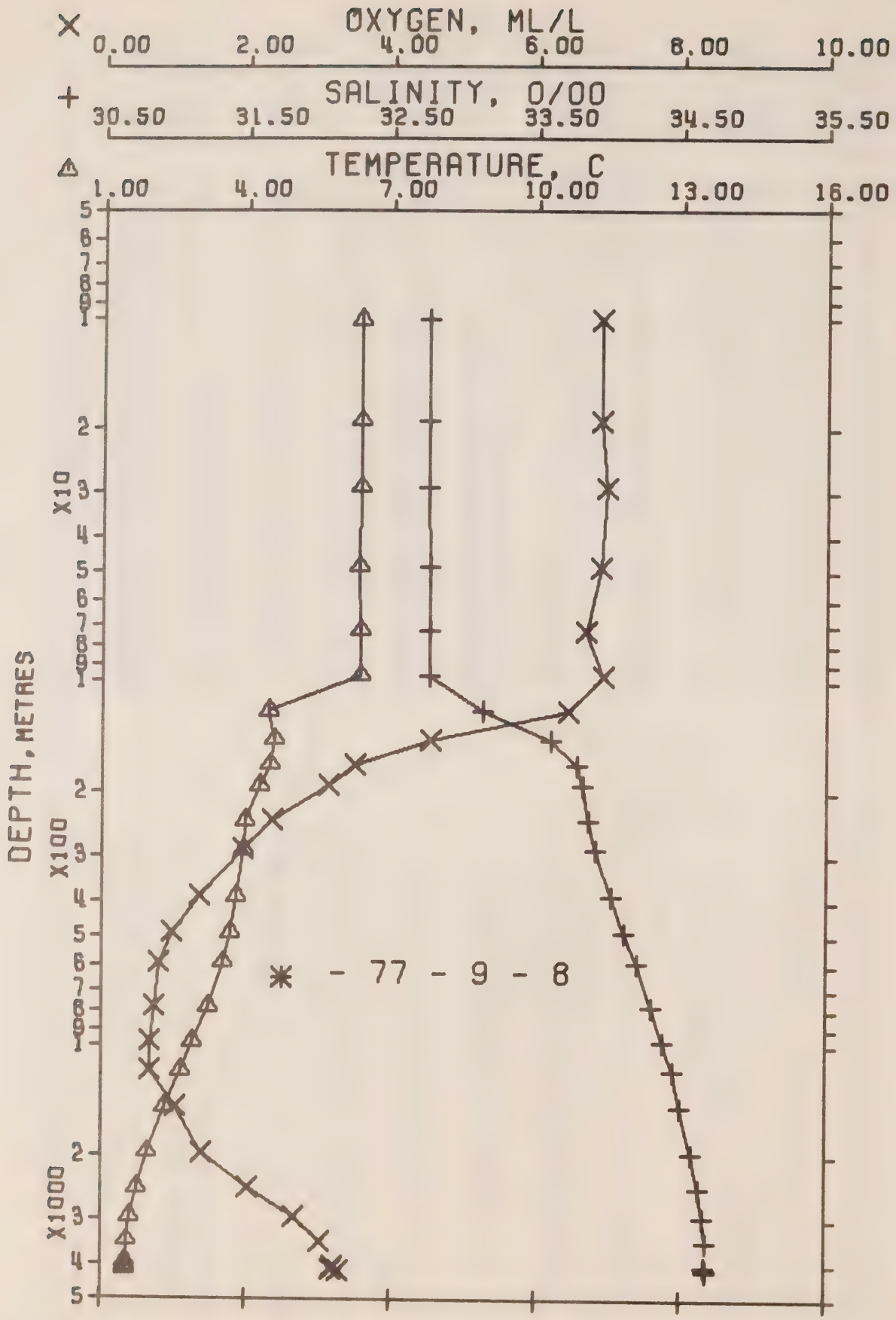
OFFSHORE OCEANOGRAPHY GROUP
REFERENCE NO. 77- 9- 5 DATE 7/12/77 GMT 19.1
POSITION 50- .0 N, 145- .0 W STATION P
HYDROGRAPHIC CAST DATA

OBSERVED DATA

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	THETA	SVA (THETA)	DELTA D	POT. EN	OXY	SOUND
0	6.46	32.765	0	25.755	224.9	6.46	224.9	.00	.00	6.91	1474.
10	6.42	32.763	10	25.758	224.7	6.42	224.5	.23	.01	6.93	1474.
19	6.43	32.765	19	25.759	224.8	6.43	224.5	.43	.04	6.87	1474.
29	6.43	32.764	29	25.758	224.9	6.43	224.6	.66	.10	6.85	1474.
49	6.42	32.764	49	25.759	225.1	6.42	224.4	1.11	.28	6.91	1475.
73	6.42	32.766	73	25.761	225.2	6.41	224.2	1.65	.62	6.89	1475.
99	6.32	32.769	98	25.776	224.1	6.31	222.8	2.24	1.13	6.91	1475.
124	4.49	33.245	123	26.365	168.0	4.48	166.9	2.73	1.69	5.98	1469.
149	4.60	33.683	148	26.700	136.6	4.59	135.1	3.11	2.22	4.13	1470.
175	4.40	33.795	174	26.810	126.3	4.39	124.6	3.45	2.79	3.40	1470.
200	4.15	33.819	199	26.855	122.1	4.14	120.3	3.77	3.38	2.87	1469.
253	3.97	33.873	251	26.916	116.7	3.95	114.4	4.39	4.83	2.44	1469.
304	3.91	33.929	302	26.967	112.3	3.89	109.6	4.98	6.50	1.92	1470.
408	3.78	34.042	405	27.070	103.3	3.75	99.8	6.10	10.56	1.29	1471.
510	3.73	34.145	506	27.156	95.9	3.69	91.5	7.12	15.31	1.02	1473.
608	3.48	34.217	603	27.238	88.7	3.44	83.7	8.02	20.46	.77	1474.
801	3.19	34.312	794	27.341	79.9	3.13	73.8	9.64	32.09	.70	1476.
1002	2.83	34.403	992	27.446	70.5	2.76	63.8	11.15	45.89	.71	1477.
1203	2.60	34.451	1191	27.505	65.6	2.52	58.2	12.51	61.22	.70	1480.
1507	2.30	34.520	1490	27.585	58.7	2.20	50.4	14.39	87.20	.87	1484.
2014	1.95	34.583*	1989	27.664	52.1	1.81	42.8	17.21	137.63	1.45	1491.
2521	1.72	34.632	2487	27.721	47.5	1.54	37.2	19.72	195.79	2.08	1498.
3029	1.59	34.666	2985	27.757	44.8	1.37	33.4	22.06	261.90	2.62	1506.
3538	1.52	34.677	3482	27.771	44.4	1.25	31.8	24.32	337.55	3.05	1515.
4045	1.52	34.678	3977	27.772	45.7	1.19	31.3	26.60	425.66	3.31	1524.
4146	1.52	34.674*	4075	27.769	46.2	1.18	31.6	27.06	444.95	3.29*	1525.
4237	1.51	34.670	4164	27.766	46.5	1.16	31.7	27.49	463.09	3.28	1527.
4247	1.52	34.678	4174	27.772	46.2	1.17	31.2	27.53	465.15	3.30	1527.

INTERPOLATED TO STANDARD PRESSURE

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	THETA	SVA (THETA)	DELTA D	POT. EN	OXY	SOUND
0	6.46	32.765	0	25.755	224.9	6.46	224.9	.00	.00	6.91	1474.
10	6.42	32.763	10	25.758	224.7	6.42	224.5	.23	.01	6.93	1474.
20	6.43	32.765	20	25.759	224.8	6.43	224.5	.45	.05	6.87	1474.
30	6.43	32.764	30	25.758	225.0	6.43	224.6	.67	.10	6.85	1474.
50	6.42	32.764	50	25.759	225.1	6.42	224.4	1.12	.29	6.91	1475.
75	6.41	32.766	75	25.762	225.1	6.41	224.1	1.69	.65	6.89	1475.
100	6.21	32.798	99	25.812	220.6	6.20	219.3	2.27	1.16	6.85	1475.
125	4.50	33.267	124	26.382	166.4	4.49	165.2	2.75	1.71	5.88	1469.
150	4.59	33.688	149	26.704	136.2	4.58	134.6	3.12	2.24	4.10	1470.
175	4.40	33.795	174	26.810	126.3	4.39	124.6	3.45	2.79	3.40	1470.
200	4.15	33.819	199	26.855	122.1	4.14	120.3	3.77	3.38	2.87	1469.
225	4.06	33.846	223	26.886	119.4	4.04	117.4	4.06	4.03	2.66	1469.
250	3.98	33.870	248	26.913	117.0	3.96	114.7	4.36	4.74	2.47	1469.
300	3.91	33.925	298	26.963	112.6	3.89	110.0	4.93	6.35	1.96	1470.
400	3.79	34.034	397	27.063	104.0	3.76	100.5	6.01	10.21	1.33	1471.
500	3.73	34.136	496	27.149	96.6	3.70	92.3	7.02	14.80	1.04	1473.
600	3.50	34.211	595	27.232	89.2	3.46	84.3	7.95	20.01	.79	1473.
700	3.33	34.265	694	27.291	84.2	3.28	78.7	8.81	25.73	.73	1474.
800	3.19	34.311	793	27.341	79.9	3.14	73.9	9.63	32.00	.70	1476.
900	3.00	34.359	892	27.396	75.0	2.94	68.6	10.41	38.72	.70	1476.
1000	2.83	34.402	990	27.446	70.6	2.77	63.9	11.13	45.76	.71	1477.
1200	2.60	34.450	1188	27.504	65.7	2.52	58.3	12.49	60.95	.70	1480.
1500	2.31	34.519	1484	27.584	58.8	2.20	50.6	14.35	86.61	.87	1484.
2000	1.96	34.582	1976	27.662	52.3	1.82	42.9	17.14	136.18	1.44	1491.
2500	1.73	34.630	2467	27.718	47.7	1.55	37.4	19.62	193.25	2.06	1498.
3000	1.60	34.664	2956	27.755	45.0	1.38	33.6	21.93	257.88	2.60	1506.
3500	1.52	34.676	3445	27.770	44.5	1.25	31.9	24.15	331.56	3.02	1514.
4000	1.52	34.678	3933	27.772	45.6	1.20	31.4	26.39	417.23	3.28	1523.
4100	1.52	34.676	4031	27.770	46.0	1.19	31.5	26.85	436.10	3.30	1524.
4200	1.51	34.672	4128	27.767	46.4	1.17	31.7	27.31	455.66	3.28	1526.


OXYGEN, ML/L
0.00
2.00
4.00
6.00
8.00
10.00
SALINITY, O/OO
30.50
31.50
32.50
33.50
34.50
35.50
TEMPERATURE, C
1.00
4.00
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DEPTH, METRES
X10
X100
X1000
* - 77 - 9 - 8

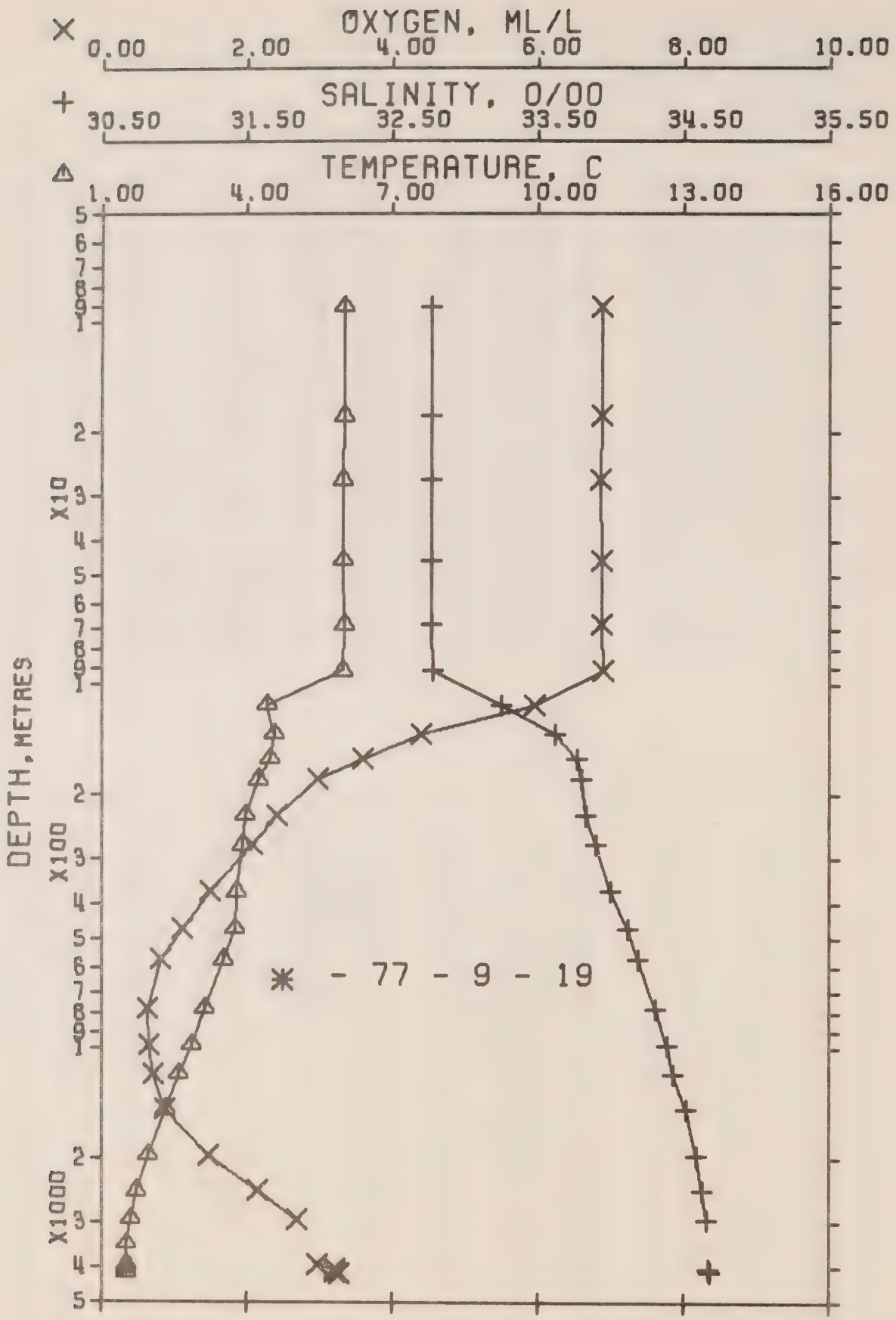
OFFSHORE OCEANOGRAPHY GROUP
REFERENCE NO. 77- 9- 8 DATE 12/12/77 GMT 19.4
POSITION 50- .0 N, 145- .0 W STATION P
HYDROGRAPHIC CAST DATA

OBSERVED DATA

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	THETA	SVA (THETA)	DELTA D	POT. EN	OXY	SOUND
0	6.33	32.759	0	25.767	223.8	6.33	223.8	.00	.00	6.92	1473.
10	6.33	32.750	10	25.760	224.6	6.33	224.4	.23	.01	6.89	1474.
19	6.34	32.751	19	25.759	224.7	6.34	224.5	.43	.04	6.88	1474.
29	6.34	32.754	29	25.761	224.6	6.34	224.2	.66	.10	6.97	1474.
48	6.32	32.762	48	25.770	224.0	6.32	223.4	1.08	.27	6.87	1474.
72	6.33	32.757	72	25.765	224.8	6.32	223.8	1.63	.60	6.68	1475.
97	6.34	32.757	96	25.764	225.2	6.33	223.9	2.18	1.08	6.92	1475.
121	4.45	33.131	120	26.279	176.1	4.44	175.0	2.67	1.62	6.43	1468.
145	4.56	33.598	144	26.637	142.5	4.55	141.0	3.05	2.14	4.54	1470.
169	4.49	33.777	168	26.786	128.6	4.48	126.9	3.38	2.66	3.49	1470.
193	4.28	33.816	192	26.839	123.7	4.27	121.8	3.68	3.22	3.13	1470.
242	3.97	33.863	240	26.908	117.4	3.95	115.2	4.26	4.51	2.35	1469.
290	3.93	33.906	288	26.947	114.1	3.91	111.5	4.82	6.03	1.96	1470.
390	3.80	34.019	387	27.049	105.1	3.77	101.7	5.92	9.82	1.37	1471.
491	3.68	34.111	487	27.134	97.8	3.65	93.6	6.94	14.42	.98	1472.
594	3.51	34.200	589	27.222	90.2	3.47	85.3	7.91	19.76	.79	1473.
785	3.23	34.296	778	27.325	81.4	3.18	75.4	9.55	31.24	.73	1475.
984	2.88	34.384	974	27.427	72.4	2.81	65.7	11.07	44.92	.68	1477.
1184	2.65	34.448	1172	27.498	66.3	2.57	58.8	12.45	60.22	.67	1480.
1485	2.32	34.502	1469	27.569	60.2	2.22	52.0	14.35	86.06	1.04	1483.
1989	1.97	34.585	1965	27.664	52.1	1.83	42.8	17.18	136.02	1.40	1490.
2495	1.76	34.632	2462	27.717	47.9	1.58	37.4	19.70	193.55	2.04	1498.
3003	1.61	34.659	2959	27.750	45.5	1.39	34.1	22.07	259.92	2.67	1506.
3510	1.54	34.681	3455	27.773	44.4	1.27	31.6	24.34	335.44	3.04	1514.
4016	1.51	34.672*	3949	27.768	45.9	1.18	31.8	26.61	422.60	3.19*	1523.
4117	1.51	34.670	4047	27.766	46.3	1.17	31.8	27.08	441.81	3.22	1525.
4208	1.52	34.676	4136	27.771	46.2	1.17	31.4	27.50	459.75	3.20	1526.
4219	1.52	34.685	4146	27.778	45.6	1.17	30.7	27.55	461.78	3.29	1527.

INTERPOLATED TO STANDARD PRESSURE

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	THETA	SVA (THETA)	DELTA D	POT. EN	OXY	SOUND
0	6.33	32.759	0	25.767	223.8	6.33	223.8	.00	.00	6.92	1473.
10	6.33	32.750	10	25.760	224.6	6.33	224.4	.23	.01	6.89	1474.
20	6.34	32.751	20	25.759	224.7	6.34	224.4	.45	.05	6.89	1474.
30	6.34	32.754	30	25.762	224.6	6.34	224.2	.67	.10	6.96	1474.
50	6.32	32.762	50	25.770	224.1	6.32	223.4	1.12	.29	6.86	1474.
75	6.33	32.757	75	25.765	224.8	6.32	223.8	1.68	.64	6.71	1475.
100	6.05	32.814	99	25.845	217.4	6.04	216.2	2.26	1.16	6.84	1474.
125	4.47	33.218	124	26.346	169.8	4.46	168.7	2.74	1.71	6.08	1468.
150	4.54	33.637	149	26.670	139.4	4.53	137.9	3.12	2.24	4.31	1470.
175	4.44	33.787	174	26.799	127.3	4.42	125.6	3.45	2.79	3.40	1470.
200	4.23	33.823	199	26.850	122.7	4.22	120.8	3.76	3.38	3.02	1470.
225	4.07	33.848	223	26.886	119.4	4.05	117.3	4.07	4.04	2.61	1469.
250	3.96	33.871	248	26.915	116.8	3.95	114.5	4.36	4.75	2.28	1469.
300	3.92	33.919	298	26.958	113.1	3.89	110.4	4.94	6.37	1.89	1470.
400	3.79	34.029	397	27.059	104.3	3.76	100.8	6.02	10.24	1.32	1471.
500	3.66	34.119	496	27.143	97.1	3.63	92.8	7.03	14.86	.97	1472.
600	3.50	34.203	595	27.225	89.8	3.46	84.9	7.96	20.09	.79	1473.
700	3.35	34.256	694	27.282	85.0	3.30	79.5	8.84	25.87	.76	1475.
800	3.20	34.303	793	27.333	80.6	3.15	74.6	9.67	32.21	.73	1476.
900	3.02	34.349	892	27.387	75.9	2.96	69.5	10.45	38.98	.70	1477.
1000	2.86	34.390	990	27.433	71.8	2.79	65.0	11.19	46.12	.68	1478.
1200	2.63	34.451	1188	27.502	65.9	2.55	58.4	12.56	61.50	.69	1480.
1500	2.31	34.505	1484	27.572	59.9	2.21	51.6	14.44	87.40	1.05	1484.
2000	1.96	34.586	1976	27.665	52.0	1.83	42.7	17.24	137.16	1.41	1491.
2500	1.76	34.632	2467	27.718	47.9	1.58	37.4	19.72	194.12	2.05	1498.
3000	1.61	34.659	2956	27.750	45.6	1.39	34.1	22.06	259.55	2.67	1506.
3500	1.54	34.681	3445	27.773	44.4	1.27	31.6	24.30	333.86	3.03	1514.
4000	1.51	34.672	3933	27.768	45.8	1.19	31.8	26.54	419.54	3.19	1523.
4100	1.51	34.670	4031	27.767	46.2	1.18	31.8	27.00	438.54	3.22	1524.
4200	1.52	34.675	4128	27.770	46.2	1.17	31.4	27.46	458.11	3.20	1526.


OXYGEN, ML/L
0.00
2.00
4.00
6.00
8.00
10.00
SALINITY, O/OO
30.50
31.50
32.50
33.50
34.50
35.50
TEMPERATURE, C
1.00
4.00
7.00
10.00
13.00
16.00
DEPTH, METRES
X10
X100
X1000
* - 77 - 9 - 19

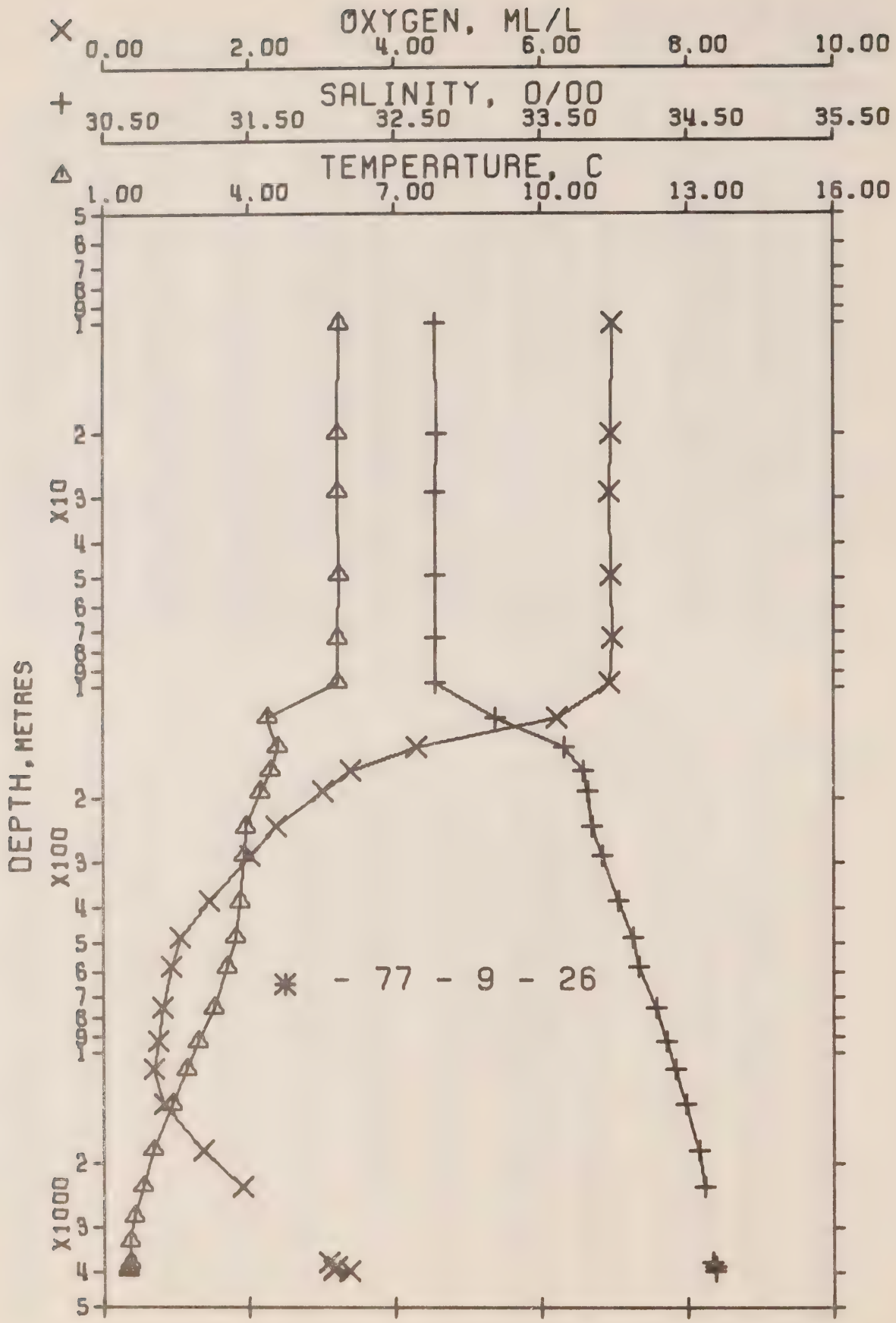
OFFSHORE OCEANOGRAPHY GROUP
REFERENCE NO. 77- 9- 19 DATE 18/12/77 GMT 18.9
POSITION 50- .0 N, 145- .0 W STATION P
HYDROGRAPHIC CAST DATA

OBSERVED DATA

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	THETA	SVA (THETA)	DELTA D	POT. EN	OXY	SOUND
0	6.01	32.777	0	25.821	218.6	6.01	218.6	.00	.00	6.89	1472.
9	6.01	32.775	9	25.819	218.9	6.01	218.8	.20	.01	6.88	1472.
18	6.00	32.774	18	25.820	218.9	6.00	218.7	.40	.04	6.88	1472.
27	5.98	32.772	27	25.820	218.9	5.98	218.6	.59	.08	6.86	1472.
45	5.98	32.772	45	25.820	219.1	5.98	218.6	.99	.23	6.88	1473.
68	6.00	32.770	68	25.816	219.8	5.99	218.9	1.50	.52	6.88	1473.
92	5.97	32.776	91	25.825	219.2	5.96	218.1	2.01	.94	6.89	1474.
114	4.43	33.250	113	26.375	166.9	4.42	165.9	2.44	1.39	5.96	1468.
137	4.56	33.618	136	26.652	140.9	4.55	139.5	2.80	1.84	4.40	1470.
160	4.49	33.770	159	26.780	129.0	4.48	127.4	3.11	2.31	3.59	1470.
183	4.23	33.802	182	26.833	124.1	4.22	122.4	3.40	2.83	2.99	1469.
230	3.97	33.826	228	26.879	120.0	3.95	118.0	3.97	4.02	2.42	1469.
277	3.91	33.896	275	26.941	114.6	3.89	112.1	4.52	5.45	2.07	1470.
373	3.79	34.005	370	27.039	105.9	3.76	102.7	5.58	8.94	1.50	1471.
472	3.76	34.121	468	27.134	97.7	3.73	93.6	6.58	13.27	1.13	1472.
575	3.53	34.195	570	27.216	90.6	3.49	85.8	7.55	18.43	.83	1473.
784	3.12	34.314	777	27.349	78.9	3.07	73.1	9.32	30.62	.65	1475.
986	2.85	34.389	976	27.434	71.7	2.78	65.0	10.83	44.25	.66	1477.
1186	2.60	34.432	1174	27.490	66.9	2.52	59.6	12.22	59.65	.73	1480.
1488	2.31	34.524	1472	27.588	58.4	2.21	50.2	14.10	85.23	.88	1483.
1992	1.95	34.589	1968	27.668	51.6	1.81	42.3	16.87	134.35	1.48	1490.
2495	1.72	34.634	2462	27.722	47.3	1.54	37.0	19.35	190.83	2.15	1498.
3001	1.59	34.661	2957	27.753	45.1	1.37	33.8	21.67	255.91	2.70	1506.
3506	1.52	34.666*	3451	27.763	45.1	1.25	32.6	23.95	331.38	2.85*	1514.
4013	1.51	34.671*	3946	27.767	45.9	1.19	31.8	26.25	419.72	2.99	1523.
4114	1.51	34.672	4044	27.768	46.1	1.17	31.7	26.71	438.89	3.23	1525.
4205	1.51	34.677	4133	27.772	46.0	1.16	31.2	27.13	456.74	3.22	1526.
4216	1.52	34.677*	4143	27.771	46.2	1.17	31.3	27.18	458.77	3.28	1526.

INTERPOLATED TO STANDARD PRESSURE

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	THETA	SVA (THETA)	DELTA D	POT. EN	OXY	SOUND
0	6.01	32.777	0	25.821	218.6	6.01	218.6	.00	.00	6.89	1472.
10	6.01	32.775	10	25.819	218.9	6.01	218.7	.22	.01	6.88	1472.
20	6.00	32.774	20	25.820	218.9	5.99	218.7	.44	.04	6.88	1472.
30	5.98	32.772	30	25.820	219.0	5.98	218.6	.66	.10	6.86	1473.
50	5.98	32.772	50	25.820	219.3	5.98	218.7	1.09	.28	6.88	1473.
75	5.99	32.772	75	25.819	219.6	5.98	218.7	1.64	.63	6.89	1473.
100	5.35	32.968	99	26.050	197.8	5.34	196.7	2.19	1.12	6.51	1471.
125	4.50	33.437	124	26.516	153.7	4.49	152.5	2.62	1.61	5.16	1469.
150	4.52	33.707	149	26.727	134.0	4.51	132.5	2.97	2.10	3.93	1470.
175	4.32	33.791	174	26.815	125.8	4.31	124.1	3.30	2.64	3.20	1469.
200	4.13	33.811	199	26.851	122.5	4.12	120.7	3.61	3.23	2.77	1469.
225	3.99	33.824	223	26.875	120.4	3.98	118.4	3.91	3.88	2.47	1469.
250	3.94	33.858	248	26.907	117.5	3.93	115.3	4.21	4.61	2.26	1469.
300	3.88	33.925	298	26.967	112.2	3.86	109.6	4.78	6.21	1.92	1470.
400	3.78	34.040	397	27.068	103.5	3.75	100.0	5.86	10.06	1.39	1471.
500	3.69	34.143	496	27.158	95.6	3.66	91.3	6.85	14.61	1.04	1473.
600	3.47	34.211	595	27.234	89.0	3.43	84.1	7.78	19.78	.80	1473.
700	3.27	34.270	694	27.301	83.1	3.22	77.7	8.64	25.47	.71	1474.
800	3.10	34.321	793	27.357	78.2	3.04	72.4	9.44	31.63	.65	1475.
900	2.96	34.359	891	27.400	74.5	2.90	68.2	10.21	38.25	.66	1476.
1000	2.83	34.392	990	27.438	71.3	2.76	64.6	10.93	45.29	.67	1477.
1200	2.59	34.437	1188	27.495	66.5	2.50	59.1	12.31	60.78	.73	1480.
1500	2.30	34.526	1483	27.590	58.3	2.20	50.0	14.17	86.27	.90	1484.
2000	1.95	34.590	1976	27.669	51.5	1.81	42.2	16.91	135.16	1.50	1491.
2500	1.72	34.634	2467	27.722	47.2	1.54	37.0	19.37	191.38	2.16	1498.
3000	1.59	34.661	2956	27.753	45.1	1.37	33.8	21.67	255.83	2.70	1506.
3500	1.52	34.666	3445	27.763	45.1	1.25	32.6	23.92	330.44	2.85	1514.
4000	1.51	34.671	3933	27.767	45.9	1.19	31.8	26.19	417.23	2.98	1523.
4100	1.51	34.672	4030	27.768	46.1	1.18	31.7	26.65	436.21	3.19	1524.
4200	1.51	34.677	4128	27.772	46.0	1.16	31.2	27.11	455.71	3.23	1526.


OXYGEN, ML/L
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6.00
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10.00
SALINITY, O/OO
30.50
31.50
32.50
33.50
34.50
35.50
TEMPERATURE, C
1.00
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DEPTH, METRES
X10
X100
X1000
* - 77 - 9 - 26

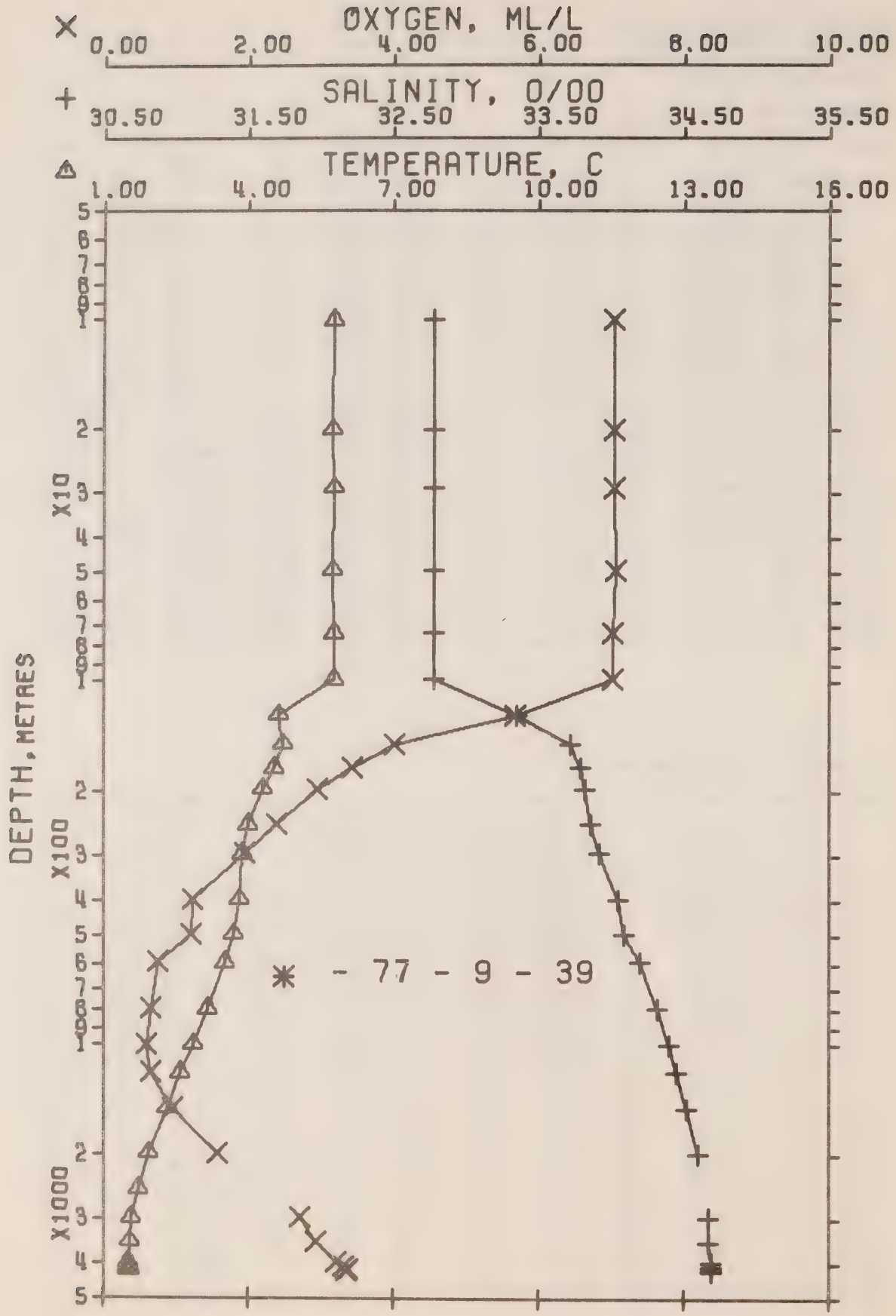
OFFSHORE OCEANOGRAPHY GROUP
REFERENCE NO. 77- 9- 26 DATE 24/12/77 GMT 19.0
POSITION 50- .0 N, 145- .0 W STATION P
HYDROGRAPHIC CAST DATA

OBSERVED DATA

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	THETA	SVA (THETA)	DELTA D	POT. EN	OXY	SOUND
0	5.87	32.779	0	25.839	216.8	5.87	216.8	.00	.00	6.97	1472.
10	5.85	32.781	10	25.843	216.6	5.85	216.4	.22	.01	6.98	1472.
20	5.82	32.787	20	25.852	215.9	5.82	215.6	.44	.04	6.97	1472.
29	5.83	32.783	29	25.847	216.4	5.83	216.0	.63	.09	6.95	1472.
49	5.85	32.783	49	25.845	216.8	5.85	216.3	1.07	.27	6.95	1472.
73	5.83	32.779	73	25.844	217.2	5.82	216.3	1.59	.60	6.98	1473.
98	5.83	32.783	97	25.847	217.1	5.82	216.0	2.13	1.07	6.95	1473.
122	4.38	33.195	121	26.337	170.6	4.37	169.5	2.60	1.59	6.22	1468.
146	4.59	33.658	145	26.681	138.3	4.58	136.8	2.97	2.10	4.30	1470.
169	4.44	33.795	168	26.806	126.7	4.43	125.0	3.28	2.59	3.39	1470.
193	4.25	33.820	192	26.845	123.0	4.24	121.2	3.58	3.15	3.02	1469.
242	3.93	33.850	240	26.902	117.9	3.91	115.8	4.16	4.44	2.39	1469.
289	3.90	33.920	287	26.961	112.8	3.88	110.2	4.71	5.92	2.03	1470.
386	3.82	34.033	383	27.059	104.3	3.79	100.9	5.76	9.53	1.45	1471.
485	3.73	34.132	481	27.146	96.7	3.70	92.5	6.75	13.92	1.06	1472.
586	3.54	34.168	581	27.193	92.8	3.50	88.0	7.71	19.15	.94	1473.
758	3.27	34.288	751	27.315	82.2	3.22	76.4	9.21	29.40	.83	1475.
937	2.96	34.362	928	27.402	74.6	2.90	68.0	10.61	41.49	.77	1477.
1119	2.71	34.422	1108	27.472	68.5	2.63	61.3	11.91	55.12	.71	1479.
1397	2.41	34.494	1382	27.555	61.3	2.32	53.3	13.71	78.15	.84	1482.
1870	2.03	34.579	1848	27.654	52.8	1.90	43.7	16.40	122.89	1.38	1489.
2354	1.80	34.625	2323	27.709	48.5	1.63	38.3	18.84	175.34	1.91	1496.
2844	1.63	34.644*	2804	27.737	46.4	1.42	35.4	21.17	236.87	2.38*	1503.
3338	1.53	34.661*	3287	27.758	45.2	1.28	33.2	23.42	307.98	2.77*	1511.
3832	1.53	34.675	3769	27.769	45.5	1.22	31.8	25.67	390.20	3.10	1520.
3930	1.51	34.687	3865	27.780	44.6	1.19	30.7	26.12	407.74	3.20	1522.
4018	1.51	34.692*	3951	27.784	44.4	1.18	30.2	26.51	423.65	3.16	1523.
4028	1.51	34.693	3960	27.785	44.4	1.18	30.1	26.55	425.33	3.37	1523.

INTERPOLATED TO STANDARD PRESSURE

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	THETA	SVA (THETA)	DELTA D	POT. EN	OXY	SOUND
0	5.87	32.779	0	25.839	216.8	5.87	216.8	.00	.00	6.97	1472.
10	5.85	32.781	10	25.843	216.6	5.85	216.4	.22	.01	6.98	1472.
20	5.82	32.787	20	25.852	215.9	5.82	215.6	.44	.04	6.97	1472.
30	5.83	32.783	30	25.847	216.4	5.83	216.1	.65	.10	6.95	1472.
50	5.85	32.783	50	25.845	216.9	5.85	216.3	1.08	.28	6.95	1472.
75	5.83	32.779	75	25.845	217.2	5.82	216.3	1.63	.62	6.97	1473.
100	5.67	32.827	99	25.901	212.0	5.67	210.9	2.18	1.12	6.87	1473.
125	4.41	33.261	124	26.386	166.0	4.40	164.9	2.65	1.66	5.95	1468.
150	4.56	33.683	149	26.704	136.2	4.55	134.7	3.02	2.18	4.13	1470.
175	4.39	33.801	174	26.816	125.8	4.38	124.0	3.35	2.72	3.30	1470.
200	4.20	33.825	199	26.854	122.3	4.19	120.4	3.66	3.31	2.92	1469.
225	4.03	33.840	223	26.884	119.6	4.02	117.5	3.96	3.96	2.59	1469.
250	3.92	33.863	248	26.913	116.9	3.91	114.7	4.26	4.68	2.32	1469.
300	3.89	33.934	298	26.973	111.7	3.87	109.0	4.83	6.28	1.96	1470.
400	3.81	34.048	397	27.072	103.1	3.78	99.6	5.90	10.10	1.39	1471.
500	3.70	34.138	496	27.154	96.1	3.66	91.8	6.89	14.64	1.04	1473.
600	3.52	34.179	595	27.205	91.8	3.47	86.9	7.84	19.93	.93	1474.
700	3.35	34.251	694	27.277	85.5	3.30	80.0	8.72	25.80	.86	1475.
800	3.19	34.307	793	27.337	80.3	3.14	74.2	9.55	32.12	.81	1476.
900	3.02	34.348	891	27.386	76.0	2.96	69.6	10.33	38.88	.78	1477.
1000	2.87	34.384	990	27.428	72.3	2.80	65.5	11.07	46.06	.75	1478.
1200	2.62	34.445	1188	27.498	66.2	2.53	58.8	12.45	61.55	.75	1480.
1500	2.32	34.515	1484	27.580	59.3	2.22	51.0	14.33	87.31	.97	1484.
2000	1.96	34.592	1976	27.670	51.6	1.83	42.2	17.08	136.24	1.53	1491.
2500	1.75	34.631	2467	27.718	47.8	1.57	37.4	19.55	192.76	2.06	1498.
3000	1.60	34.650	2956	27.744	46.0	1.38	34.7	21.89	258.29	2.51	1506.
3500	1.53	34.666	3445	27.762	45.3	1.26	32.7	24.16	333.52	2.88	1514.
4000	1.51	34.691	3933	27.784	44.5	1.19	30.3	26.43	420.30	3.16	1523.


OXYGEN, ML/L
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SALINITY, O/OO
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32.50
33.50
34.50
35.50
TEMPERATURE, C
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10.00
13.00
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DEPTH, METRES
X10
X100
X1000
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OFFSHORE OCEANOGRAPHY GROUP
REFERENCE NO. 77- 9- 39 DATE 1/ 1/78 GMT 18.0
POSITION 50- .0 N, 145- .0 W STATION P
HYDROGRAPHIC CAST DATA

OBSERVED DATA

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	THETA	SVA (THETA)	DELTA D	POT. EN	OXY	SOUND
0	5.84	32.780	0	25.844	216.4	5.84	216.4	.00	.00	7.03	1471.
10	5.76	32.781	10	25.854	215.5	5.76	215.4	.22	.01	7.04	1471.
20	5.74	32.780	20	25.856	215.5	5.74	215.2	.43	.04	7.05	1471.
29	5.78	32.777	29	25.849	216.3	5.78	215.9	.63	.09	7.04	1472.
49	5.74	32.780	49	25.856	215.8	5.74	215.2	1.06	.27	7.06	1472.
73	5.76	32.777	73	25.851	216.5	5.75	215.7	1.59	.59	7.01	1472.
99	5.77	32.780	98	25.852	216.7	5.76	215.5	2.15	1.09	7.02	1473.
124	4.64	33.349	123	26.431	161.8	4.63	160.6	2.62	1.63	5.68	1469.
149	4.73	33.721	148	26.715	135.1	4.72	133.6	3.00	2.14	4.03	1471.
173	4.54	33.793	172	26.793	127.9	4.53	126.2	3.31	2.66	3.45	1470.
198	4.30	33.822	197	26.842	123.5	4.29	121.5	3.63	3.26	2.96	1470.
249	3.99	33.865	247	26.908	117.5	3.97	115.2	4.24	4.65	2.40	1469.
299	3.89	33.916	297	26.959	113.0	3.87	110.4	4.82	6.27	1.96	1470.
399	3.81	34.046	396	27.070	103.3	3.78	99.8	5.90	10.10	1.24	1471.
498	3.70	34.086	494	27.113	99.9	3.66	95.7	6.91	14.74	1.21	1472.
597	3.51	34.201	592	27.223	90.1	3.47	85.2	7.85	19.98	.76	1473.
802	3.16	34.317	795	27.348	79.2	3.10	73.2	9.58	32.30	.66	1476.
1004	2.85	34.397	994	27.440	71.2	2.78	64.4	11.09	46.18	.60	1478.
1205	2.60	34.452	1193	27.506	65.6	2.52	58.1	12.47	61.65	.66	1480.
1508	2.31	34.519	1491	27.584	58.9	2.21	50.6	14.34	87.57	.97	1484.
2015	1.93	34.596	1990	27.676	51.0	1.79	41.6	17.13	137.55	1.58	1491.
2523	1.73	34.639*	2489	27.725	47.1	1.55	36.7	19.60	194.76	2.20*	1498.
3032	1.58	34.674	2988	27.765	44.1	1.36	32.7	21.92	260.44	2.71	1506.
3542	1.54	34.670	3486	27.764	45.3	1.27	32.4	24.18	336.17	2.95	1515.
4052	1.51	34.691	3984	27.783	44.6	1.18	30.3	26.48	425.23	3.23	1524.
4154	1.52	34.693	4083	27.784	44.9	1.18	30.1	26.94	444.25	3.33	1525.
4246	1.52	34.692	4173	27.783	45.2	1.17	30.1	27.35	462.06	3.39	1527.
4257	1.53	34.691	4183	27.782	45.5	1.18	30.2	27.40	464.08	3.37	1527.

INTERPOLATED TO STANDARD PRESSURE

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	THETA	SVA (THETA)	DELTA D	POT. EN	OXY	SOUND
0	5.84	32.780	0	25.844	216.4	5.84	216.4	.00	.00	7.03	1471.
10	5.76	32.781	10	25.854	215.5	5.76	215.4	.22	.01	7.04	1471.
20	5.74	32.780	20	25.856	215.5	5.74	215.2	.43	.04	7.05	1471.
30	5.78	32.777	30	25.849	216.2	5.78	215.9	.65	.10	7.04	1472.
50	5.74	32.780	50	25.856	215.8	5.74	215.2	1.08	.27	7.06	1472.
75	5.76	32.777	75	25.851	216.5	5.75	215.6	1.62	.62	7.01	1472.
100	5.70	32.814	99	25.887	213.4	5.69	212.2	2.18	1.12	6.94	1473.
125	4.64	33.368	124	26.445	160.4	4.64	159.2	2.64	1.65	5.59	1469.
150	4.72	33.724	149	26.719	134.8	4.71	133.2	3.01	2.16	4.00	1471.
175	4.52	33.795	174	26.797	127.6	4.51	125.8	3.34	2.71	3.41	1470.
200	4.29	33.824	199	26.844	123.2	4.27	121.3	3.65	3.30	2.94	1470.
225	4.13	33.846	223	26.879	120.1	4.11	118.0	3.95	3.96	2.65	1470.
250	3.99	33.866	248	26.909	117.4	3.97	115.1	4.25	4.68	2.39	1469.
300	3.89	33.917	298	26.960	112.9	3.87	110.3	4.83	6.30	1.95	1470.
400	3.81	34.046	397	27.070	103.3	3.78	99.7	5.91	10.13	1.24	1471.
500	3.70	34.088	496	27.115	99.7	3.66	95.5	6.93	14.84	1.20	1473.
600	3.50	34.203	595	27.225	89.9	3.46	85.0	7.88	20.14	.76	1473.
700	3.32	34.263	694	27.290	84.2	3.27	78.7	8.75	25.90	.71	1474.
800	3.16	34.316	793	27.347	79.3	3.11	73.3	9.56	32.14	.66	1475.
900	3.00	34.358	891	27.395	75.1	2.94	68.7	10.33	38.82	.63	1476.
1000	2.86	34.396	990	27.438	71.3	2.79	64.6	11.07	45.91	.60	1478.
1200	2.61	34.451	1188	27.504	65.7	2.53	58.2	12.43	61.22	.66	1480.
1500	2.32	34.517	1484	27.582	59.1	2.22	50.7	14.30	86.88	.96	1484.
2000	1.94	34.594	1976	27.673	51.2	1.80	41.9	17.06	136.02	1.57	1490.
2500	1.74	34.637	2467	27.723	47.3	1.56	36.9	19.49	191.99	2.18	1498.
3000	1.59	34.672	2956	27.762	44.3	1.37	32.9	21.78	256.06	2.68	1506.
3500	1.54	34.670	3445	27.764	45.2	1.27	32.4	23.99	329.40	2.93	1514.
4000	1.51	34.689	3933	27.781	44.7	1.19	30.5	26.25	415.65	3.20	1523.
4100	1.51	34.692	4030	27.784	44.8	1.18	30.2	26.70	434.09	3.28	1524.
4200	1.52	34.692	4128	27.784	45.1	1.17	30.1	27.15	453.08	3.36	1526.

Results of STD Observations

(P-77-9)

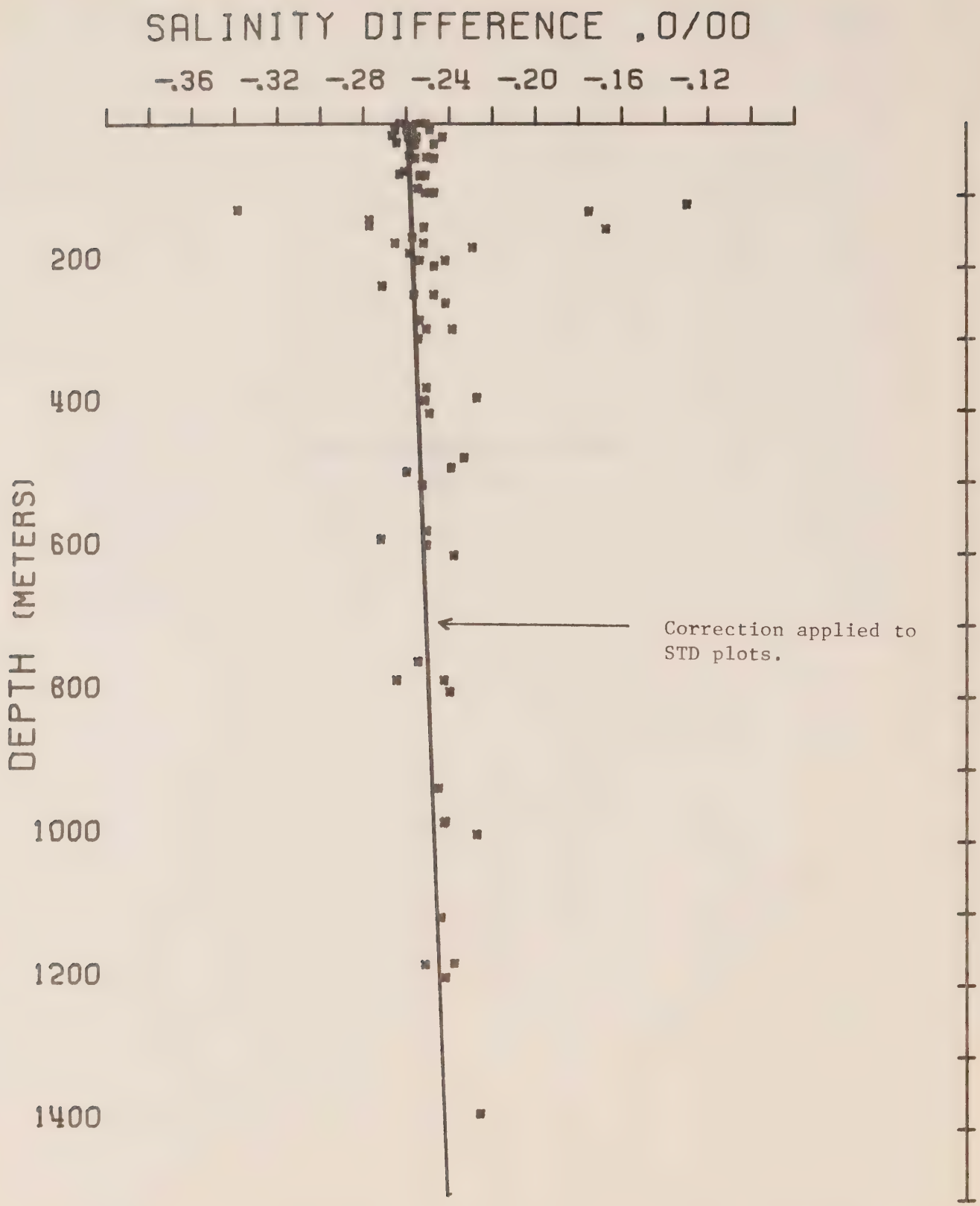


Figure 5. Salinity difference between hydro data and STD. P-77-9.

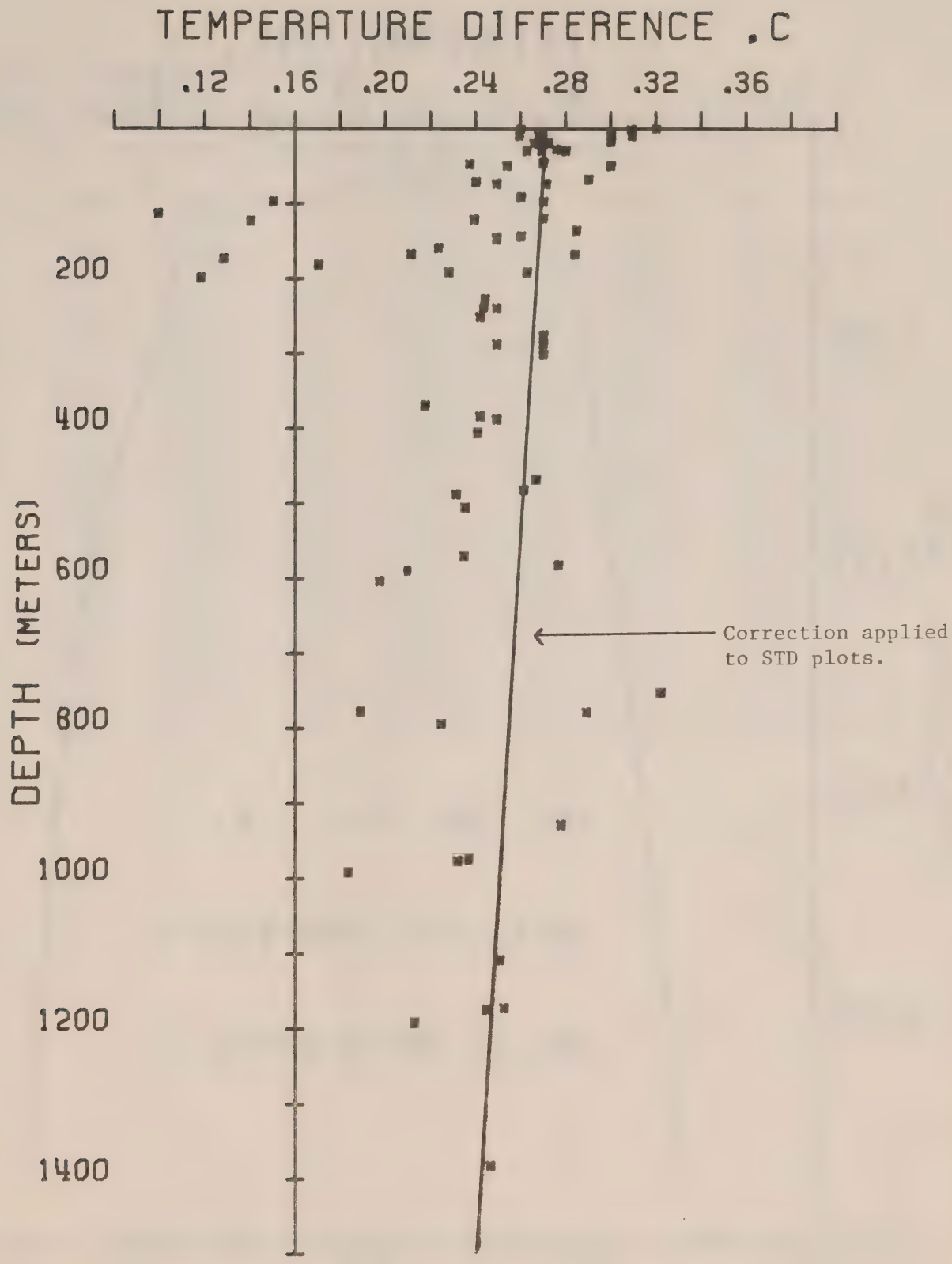
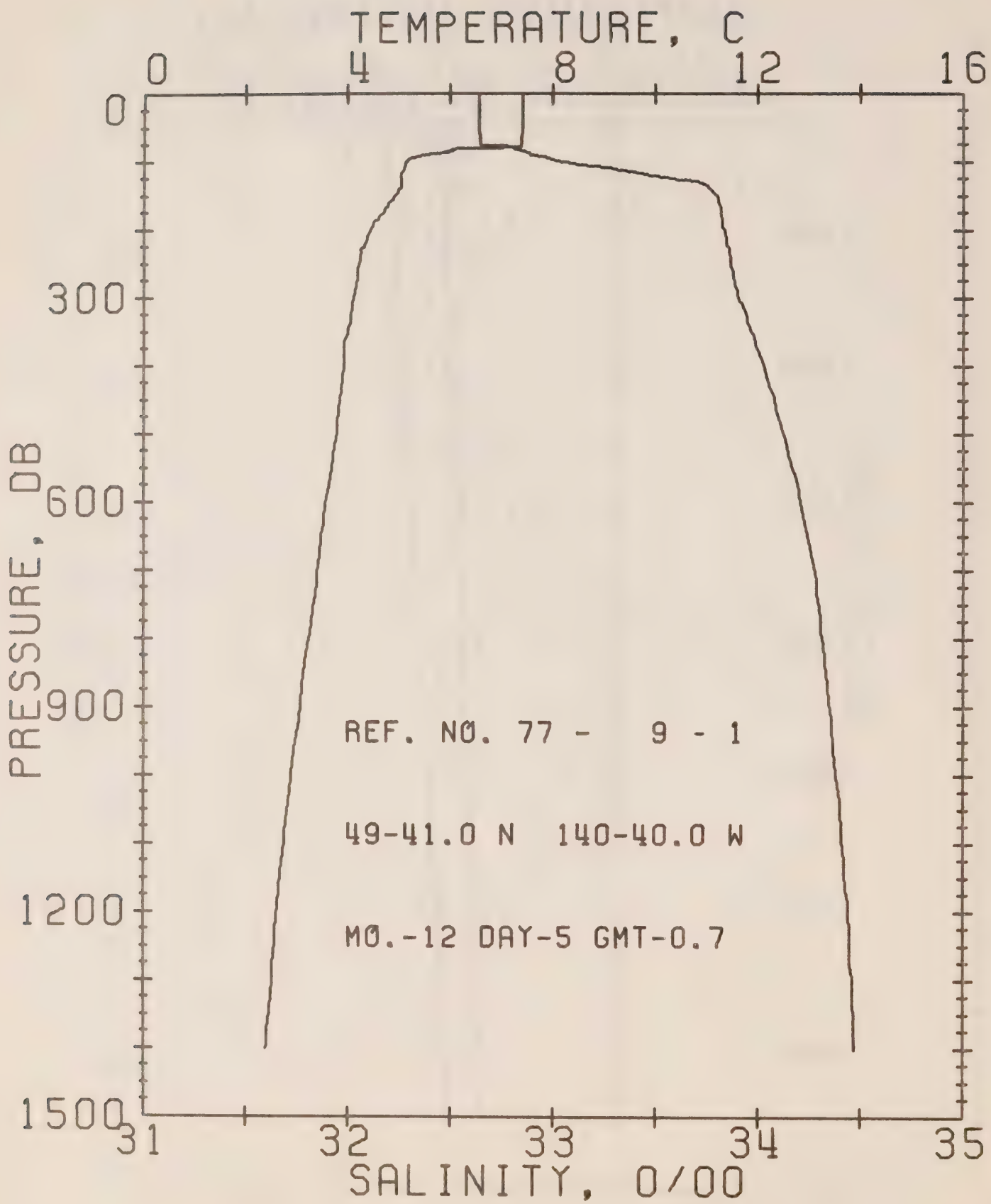
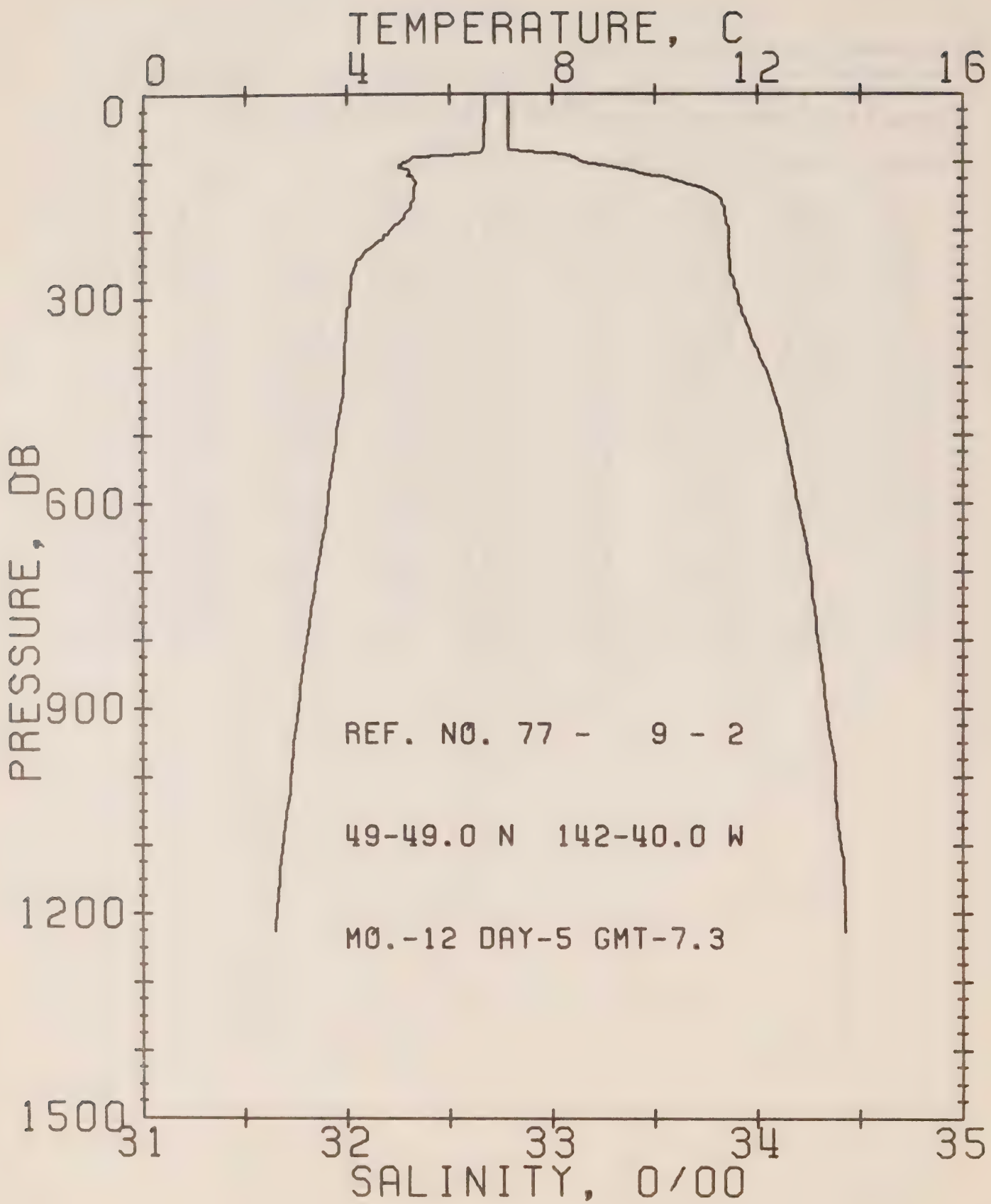


Figure 6. Temperature difference between hydro data and STD. P-77-9.


TEMPERATURE, C
0
4
8
12
16
0
300
600
900
1200
1500
PRESSURE, DB
REF. NO. 77 - 9 - 1
49-41.0 N 140-40.0 W
MO.-12 DAY-5 GMT-0.7
31
32
33
34
35
SALINITY, O/OO

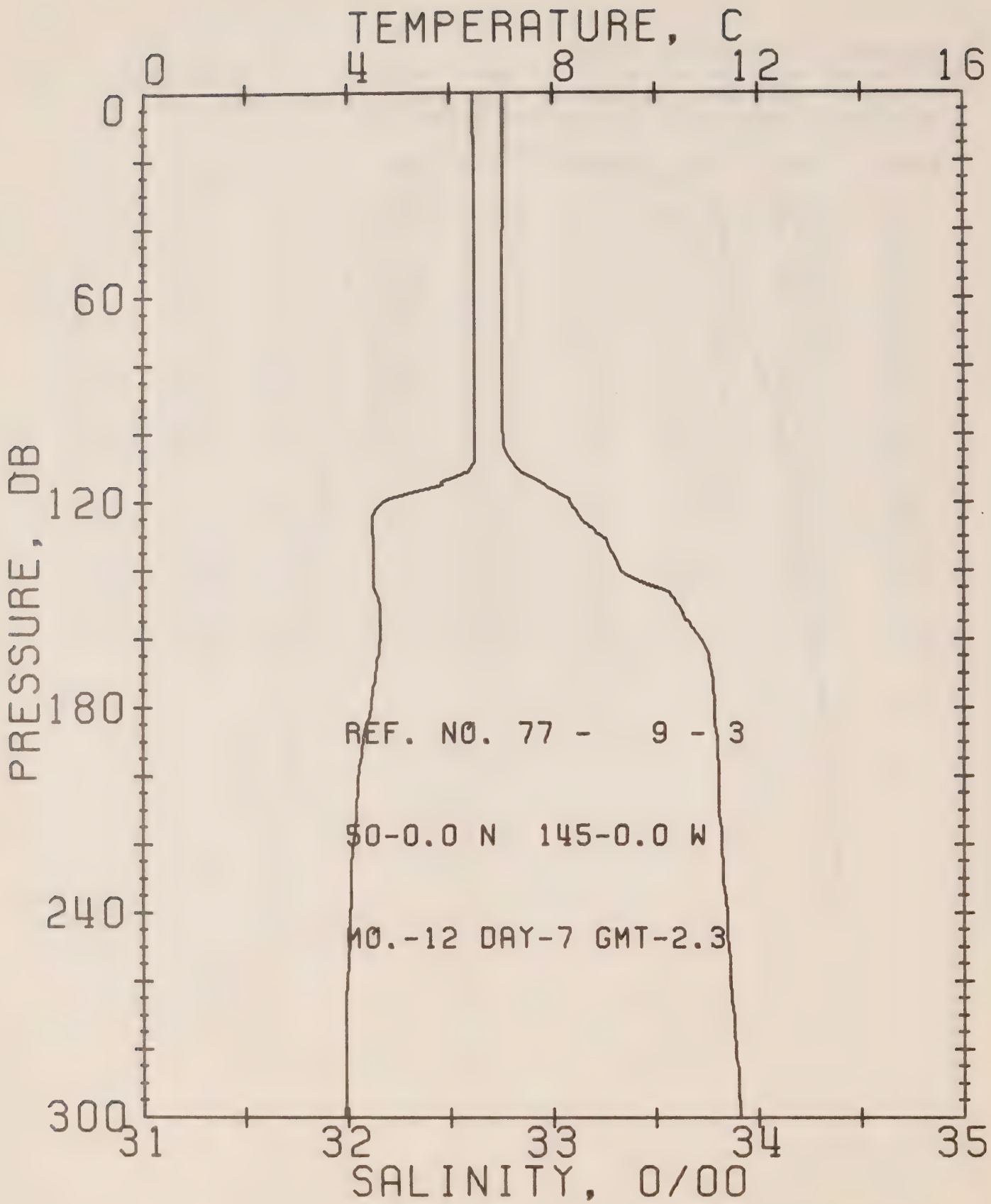
OFFSHORE OCEANOGRAPHY GROUP
REFERENCE NO. 77- 9- I DATE 5/12/77 STATION 11
POSITION 49-41.0N, 140-40.0W GMT 0.7
RESULTS OF STP CAST 177 POINTS TAKEN FROM ANALOG TRACE

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	7.41	32.64	0	25.53	246.3	0.0	0.0	1478.
10	7.41	32.64	10	25.53	246.6	0.25	0.01	1478.
20	7.41	32.64	20	25.53	246.8	0.49	0.05	1478.
30	7.41	32.64	30	25.53	246.9	0.74	0.11	1478.
50	7.41	32.64	50	25.53	247.2	1.23	0.31	1478.
75	7.38	32.65	75	25.54	246.3	1.85	0.71	1479.
100	5.14	33.05	99	26.14	189.6	2.38	1.18	1471.
125	5.05	33.61	124	26.59	146.8	2.80	1.66	1471.
150	4.91	33.80	149	26.76	131.3	3.14	2.13	1471.
175	4.67	33.82	174	26.80	127.4	3.46	2.67	1471.
200	4.44	33.84	199	26.84	123.8	3.78	3.27	1470.
225	4.29	33.86	223	26.87	121.1	4.08	3.93	1470.
250	4.22	33.87	248	26.89	119.6	4.38	4.66	1470.
300	4.10	33.91	298	26.93	115.8	4.97	6.31	1471.
400	3.91	34.03	397	27.05	105.6	6.08	10.24	1472.
500	3.77	34.12	496	27.14	98.0	7.10	14.91	1473.
600	3.56	34.21	595	27.22	90.3	8.04	20.16	1474.
800	3.23	34.32	793	27.34	80.1	9.73	32.20	1476.
1000	2.88	34.38	990	27.43	72.8	11.25	46.16	1478.
1200	2.60	34.44	1188	27.50	66.5	12.64	61.71	1480.


TEMPERATURE, C
0
4
8
12
16
0
300
600
900
1200
1500
PRESSURE, DB
REF. NO. 77 - 9 - 2
49-49.0 N 142-40.0 W
MO.-12 DAY-5 GMT-7.3
31
32
33
34
35
SALINITY, O/OO

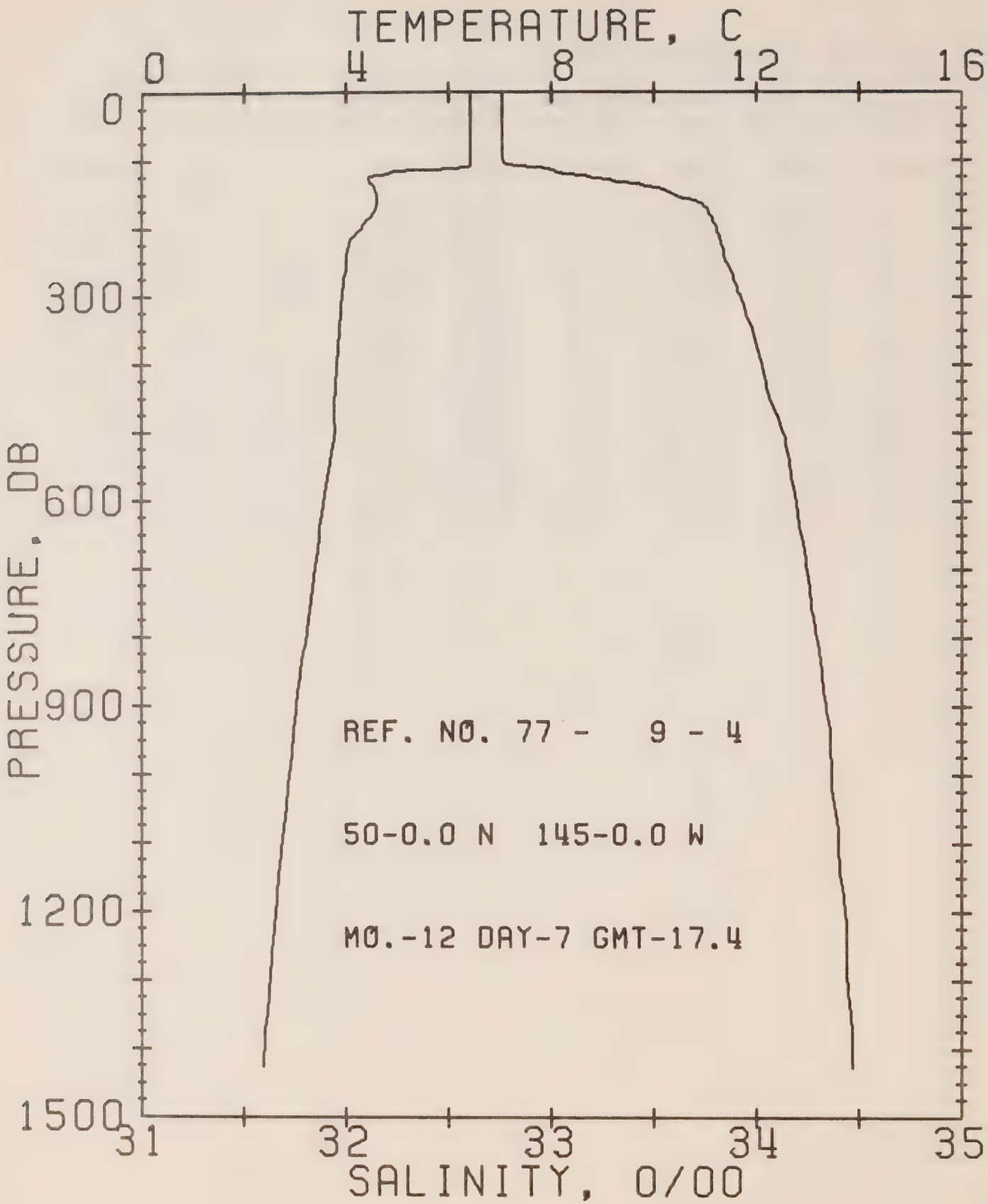
OFFSHORE OCEANOGRAPHY GROUP
REFERENCE NO. 77- 9- 2 DATE 5/12/77 STATION 12
POSITION 49-49.0N, 142-40.0W GMT 7.3
RESULTS OF STP CAST 189 POINTS TAKEN FROM ANALOG TRACE

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.70	32.79	0	25.74	225.9	0.0	0.0	1475.
10	6.70	32.79	10	25.74	226.3	0.23	0.01	1475.
20	6.69	32.79	20	25.75	226.3	0.45	0.05	1475.
30	6.68	32.79	30	25.75	226.3	0.68	0.10	1475.
50	6.67	32.79	50	25.75	226.3	1.13	0.29	1476.
75	6.66	32.79	75	25.75	226.6	1.70	0.65	1475.
100	5.13	33.15	99	26.22	181.9	2.21	1.11	1471.
125	5.33	33.58	124	26.54	152.0	2.63	1.58	1473.
150	5.30	33.81	149	26.72	135.2	2.98	2.08	1473.
175	5.15	33.84	174	26.76	131.3	3.31	2.63	1473.
200	4.84	33.86	199	26.81	126.5	3.64	3.24	1472.
225	4.45	33.86	223	26.86	122.5	3.95	3.92	1471.
250	4.16	33.87	248	26.90	119.0	4.25	4.65	1470.
300	4.04	33.91	298	26.94	115.1	4.84	6.29	1470.
400	3.95	34.03	397	27.05	105.7	5.94	10.23	1472.
500	3.79	34.14	496	27.14	97.3	6.96	14.37	1473.
600	3.61	34.20	595	27.21	91.6	7.90	20.16	1474.
800	3.20	34.30	793	27.33	81.1	9.62	32.37	1476.
1000	2.90	34.38	990	27.42	73.0	11.15	46.44	1478.
1200	2.61	34.43	1188	27.49	67.4	12.55	62.11	1480.


TEMPERATURE, C
0
4
8
12
16
0
60
120
180
240
300
PRESSURE, DB
REF. NO. 77 - 9 - 3
50-0.0 N 145-0.0 W
MO.-12 DAY-7 GMT-2.3
31
32
33
34
35
SALINITY, O/OO

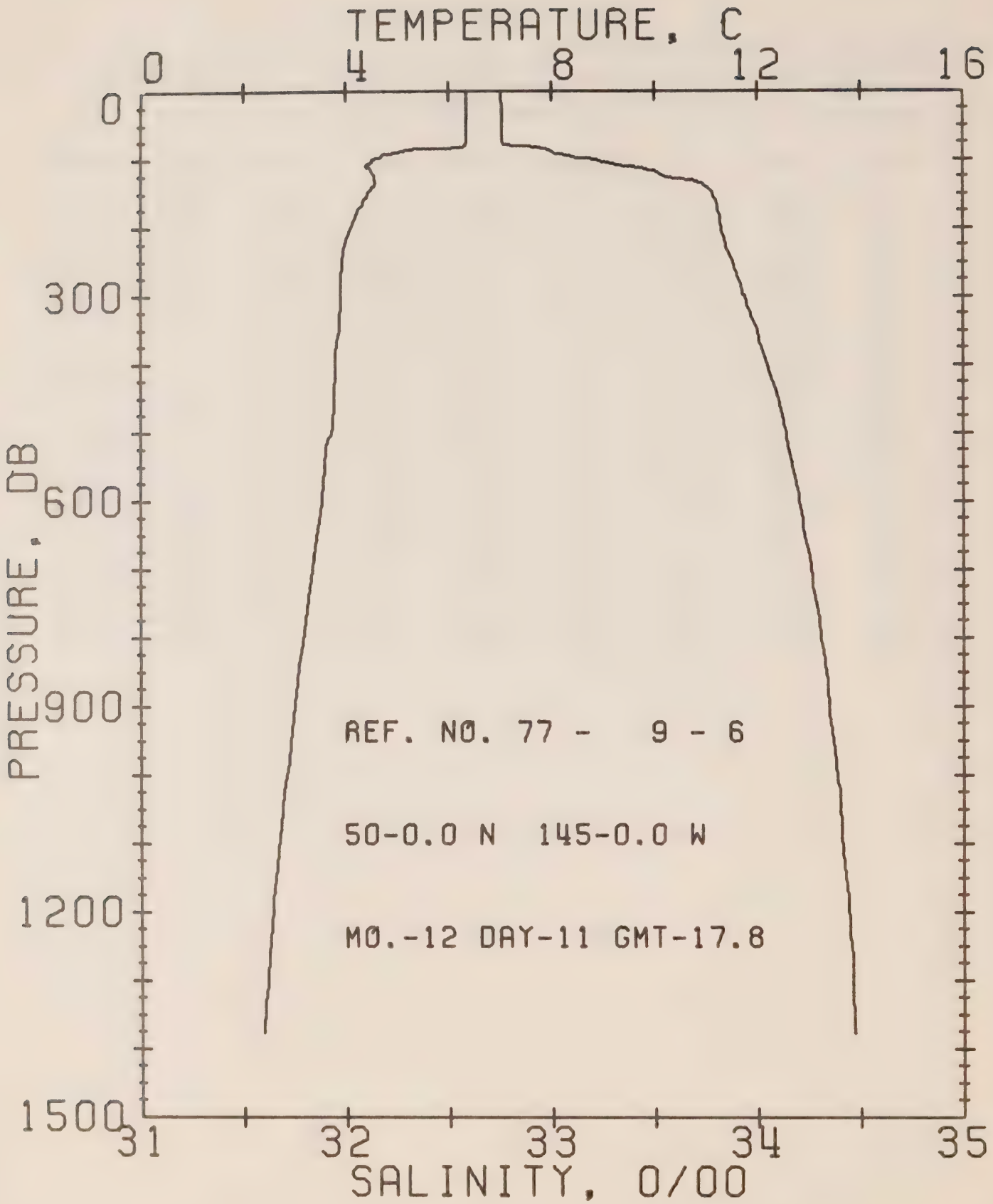
OFFSHORE OCEANOGRAPHY GROUP
REFERENCE NO. 77- 9- 3 DATE 7/12/77 STATION P
POSITION 50- 0.0N, 145- 0.0W GMT 2.3
RESULTS OF STP CAST 93 POINTS TAKEN FROM ANALOG TRACE

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.46	32.76	0	25.75	225.2	0.0	0.0	1474.
10	6.47	32.76	10	25.75	225.7	0.23	0.01	1474.
20	6.48	32.76	20	25.75	226.0	0.45	0.05	1474.
30	6.49	32.76	30	25.75	226.2	0.68	0.10	1475.
50	6.49	32.75	50	25.74	227.1	1.13	0.29	1475.
75	6.49	32.75	75	25.74	227.5	1.70	0.65	1475.
100	6.49	32.75	99	25.74	227.4	2.27	1.16	1476.
125	4.49	33.14	124	26.28	176.0	2.78	1.75	1468.
150	4.64	33.61	149	26.64	142.6	3.19	2.31	1470.
175	4.48	33.78	174	26.79	128.3	3.52	2.86	1470.
200	4.19	33.81	199	26.85	123.3	3.84	3.46	1469.
225	4.06	33.83	223	26.87	121.0	4.14	4.13	1469.
250	4.01	33.85	248	26.90	118.6	4.44	4.85	1469.
300	3.93	33.91	298	26.95	114.0	5.02	6.48	1470.


TEMPERATURE, C
0
4
8
12
16
0
300
600
900
1200
1500
PRESSURE, DB
REF. NO. 77 - 9 - 4
50-0.0 N 145-0.0 W
MO.-12 DAY-7 GMT-17.4
31
32
33
34
35
SALINITY, O/OO

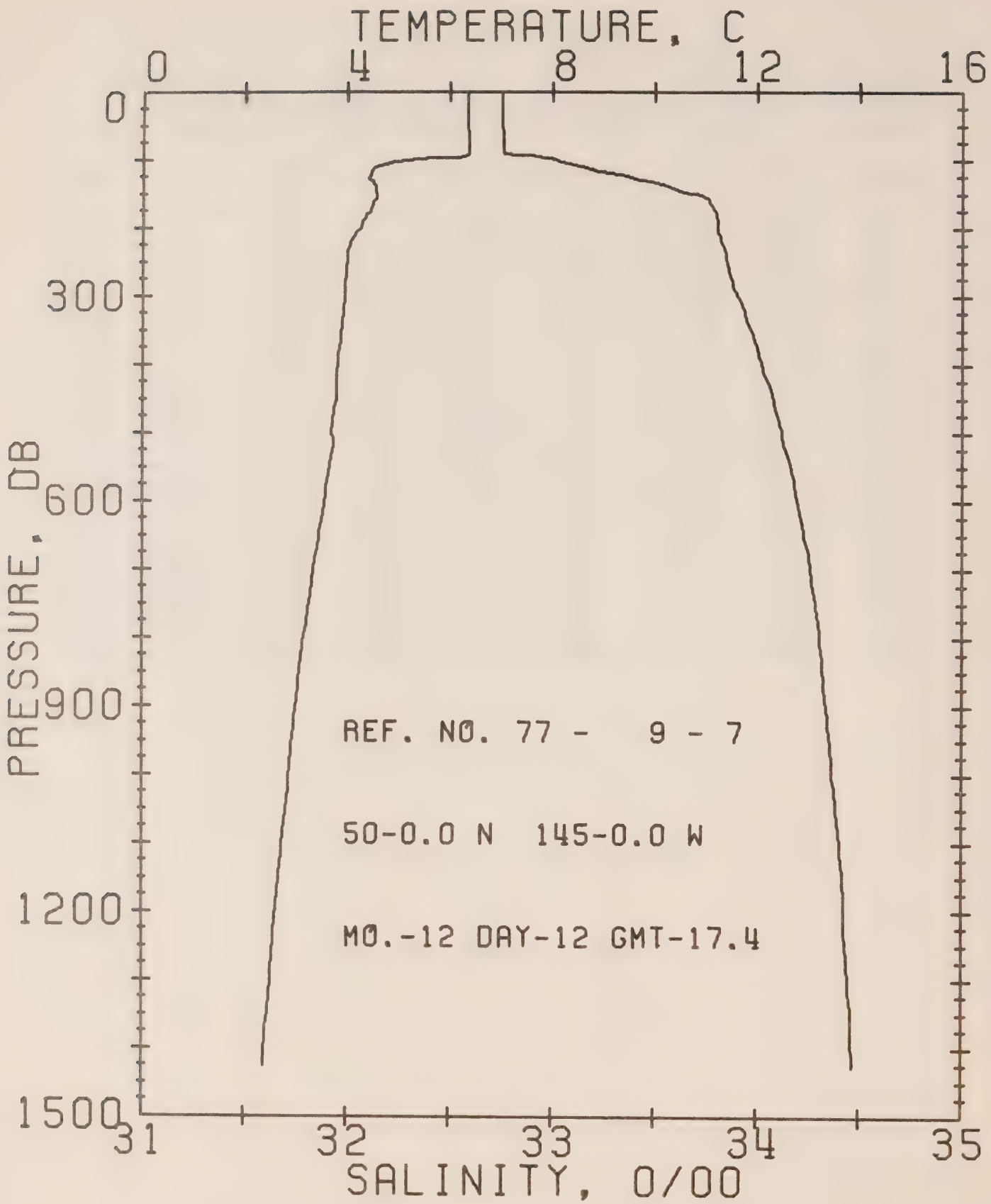
OFFSHORE OCEANOGRAPHY GROUP
REFERENCE NO. 77- 9- 4 DATE 7/12/77 STATION P
POSITION 50- 0.0N, 145- 0.0W GMT 17.4
RESULTS OF STP CAST 163 POINTS TAKEN FROM ANALOG TRACE

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.42	32.76	0	25.76	224.8	0.0	0.0	1474.
10	6.42	32.76	10	25.76	225.1	0.22	0.01	1474.
20	6.43	32.76	20	25.76	225.3	0.45	0.05	1474.
30	6.43	32.76	30	25.76	225.4	0.68	0.10	1474.
50	6.44	32.76	50	25.75	225.8	1.13	0.29	1475.
75	6.44	32.76	75	25.75	226.1	1.69	0.65	1475.
100	6.44	32.76	99	25.75	226.4	2.26	1.15	1475.
125	4.45	33.19	124	26.33	171.5	2.77	1.73	1468.
150	4.62	33.60	149	26.63	143.5	3.15	2.27	1470.
175	4.54	33.77	174	26.77	130.0	3.49	2.83	1470.
200	4.30	33.81	199	26.83	124.6	3.81	3.44	1470.
225	4.04	33.83	223	26.88	120.3	4.11	4.10	1469.
250	4.00	33.85	248	26.90	118.6	4.41	4.82	1469.
300	3.91	33.92	298	26.96	113.0	4.99	6.44	1470.
400	3.81	34.03	397	27.06	104.7	6.08	10.31	1471.
500	3.77	34.13	496	27.14	97.5	7.09	14.96	1473.
600	3.55	34.19	595	27.22	91.1	8.03	20.24	1474.
800	3.20	34.29	793	27.33	81.3	9.76	32.52	1476.
1000	2.88	34.37	990	27.42	73.6	11.30	46.59	1478.
1200	2.62	34.43	1188	27.49	67.0	12.71	62.37	1480.


TEMPERATURE, C
0
4
8
12
16
0
300
600
900
1200
1500
PRESSURE, DB
REF. NO. 77 - 9 - 6
50-0.0 N 145-0.0 W
MO.-12 DAY-11 GMT-17.8
31
32
33
34
35
SALINITY, O/OO

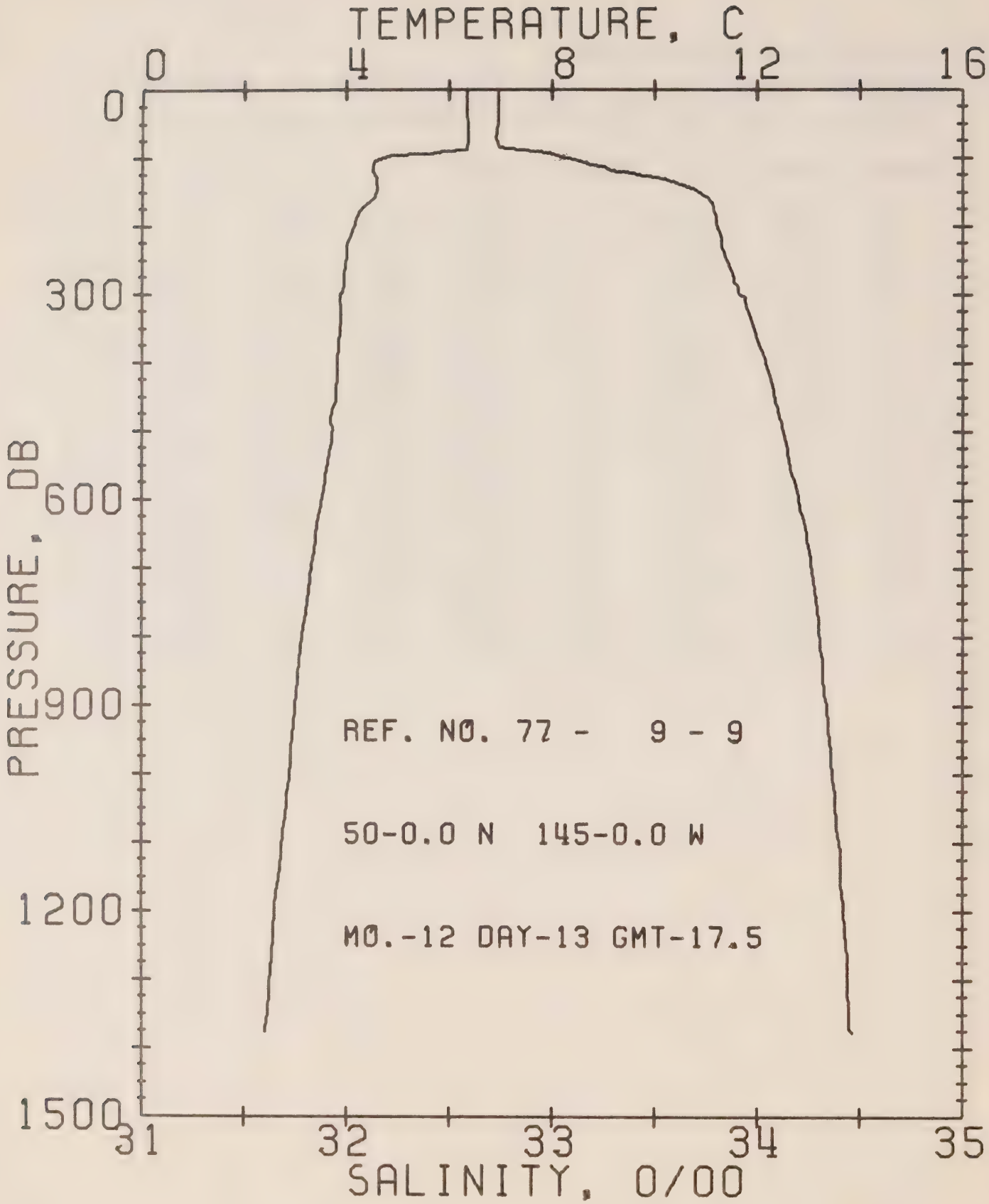
OFFSHORE OCEANOGRAPHY GROUP
REFERENCE NO. 77- 9- 6 DATE 11/12/77 STATION P
POSITION 50- 0.0N, 145- 0.0W GMT 17.8
RESULTS OF STP CAST 159 POINTS TAKEN FROM ANALOG TRACE

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.34	32.75	0	25.76	224.5	0.0	0.0	1473.
10	6.34	32.75	10	25.76	224.8	0.22	0.01	1474.
20	6.34	32.76	20	25.76	224.5	0.45	0.05	1474.
30	6.34	32.76	30	25.77	224.3	0.67	0.10	1474.
50	6.34	32.76	50	25.77	224.6	1.12	0.29	1474.
75	6.34	32.76	75	25.77	224.9	1.68	0.64	1475.
100	4.54	33.20	99	26.32	171.9	2.18	1.08	1468.
125	4.56	33.55	124	26.60	145.8	2.57	1.53	1469.
150	4.42	33.78	149	26.80	127.5	2.91	2.00	1469.
175	4.24	33.81	174	26.84	123.6	3.22	2.52	1469.
200	4.08	33.83	199	26.87	120.7	3.52	3.10	1469.
225	3.97	33.85	223	26.90	118.3	3.82	3.75	1469.
250	3.92	33.88	248	26.93	115.9	4.12	4.46	1469.
300	3.89	33.94	298	26.98	111.3	4.68	6.05	1470.
400	3.79	34.05	397	27.07	103.1	5.76	9.87	1471.
500	3.71	34.14	496	27.16	96.1	6.75	14.41	1473.
600	3.51	34.20	595	27.22	90.3	7.68	19.61	1474.
800	3.15	34.31	793	27.34	79.7	9.37	31.67	1475.
1000	2.83	34.39	990	27.44	71.8	10.88	45.51	1477.
1200	2.55	34.44	1188	27.51	65.7	12.26	60.88	1480.


TEMPERATURE, C
0
4
8
12
16
0
300
600
900
1200
1500
PRESSURE, DB
REF. NO. 77 - 9 - 7
50-0.0 N 145-0.0 W
MO.-12 DAY-12 GMT-17.4
31
32
33
34
35
SALINITY, O/OO

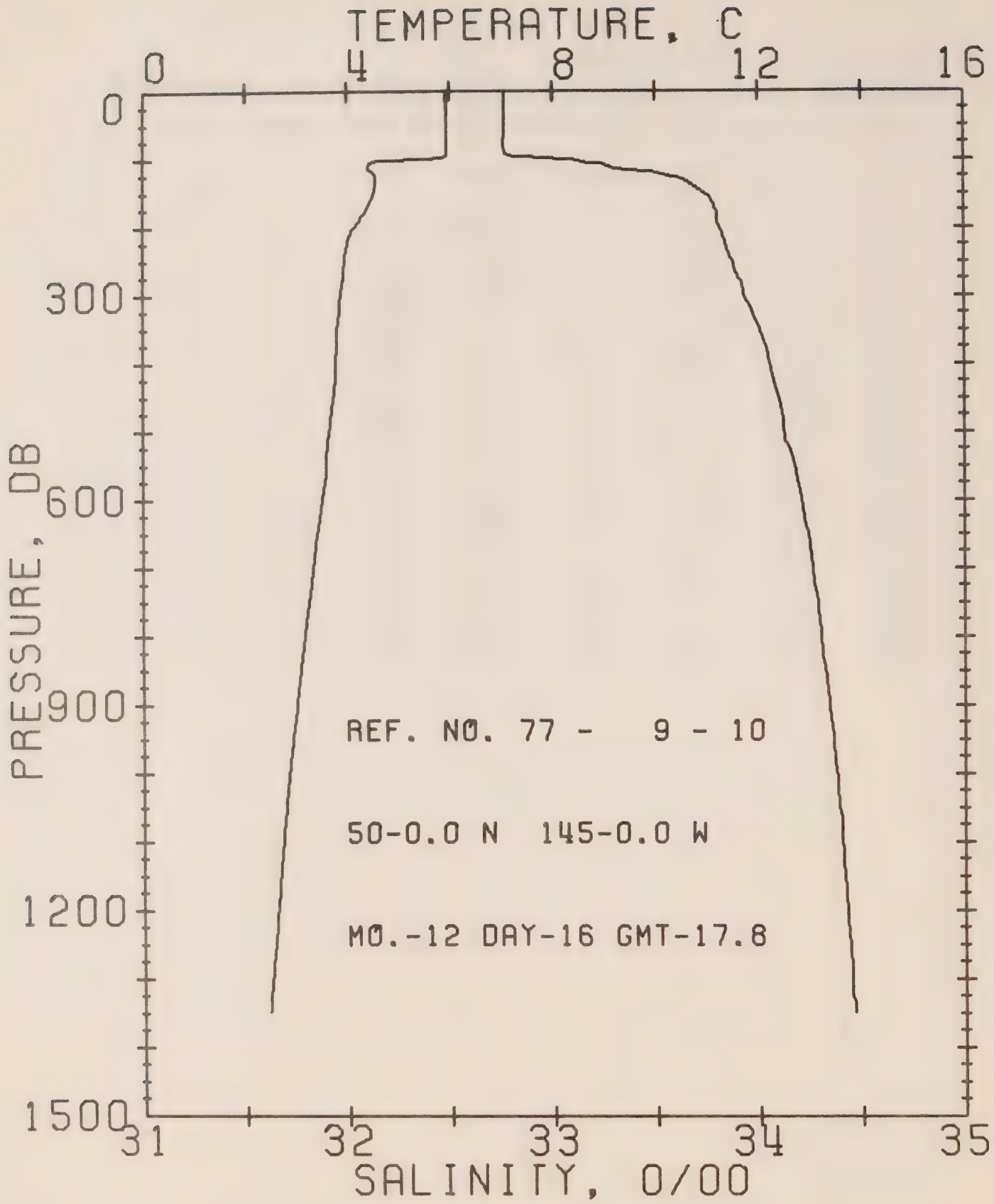
OFFSHORE OCEANOGRAPHY GROUP
REFERENCE NO. 77- 9- 7 DATE 12/12/77 STATION P
POSITION 50- 0.0N, 145- 0.0W GMT 17.4
RESULTS OF STP CAST 167 POINTS TAKEN FROM ANALOG TRACE

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.34	32.75	0	25.76	224.5	0.0	0.0	1473.
10	6.34	32.75	10	25.76	224.8	0.22	0.01	1474.
20	6.34	32.75	20	25.76	225.0	0.45	0.05	1474.
30	6.35	32.75	30	25.76	225.2	0.67	0.10	1474.
50	6.35	32.75	50	25.76	225.2	1.13	0.29	1474.
75	6.36	32.76	75	25.76	225.2	1.69	0.65	1475.
100	5.27	33.02	99	26.10	193.3	2.23	1.13	1471.
125	4.41	33.39	124	26.49	156.7	2.67	1.63	1468.
150	4.59	33.71	149	26.73	134.3	3.03	2.14	1470.
175	4.44	33.80	174	26.81	126.7	3.36	2.67	1470.
200	4.24	33.81	199	26.84	123.8	3.67	3.27	1470.
225	4.03	33.83	223	26.88	120.1	3.97	3.93	1469.
250	3.99	33.85	248	26.90	118.3	4.27	4.65	1469.
300	3.95	33.91	298	26.95	114.2	4.85	6.28	1470.
400	3.81	34.02	397	27.05	105.0	5.95	10.18	1471.
500	3.69	34.12	496	27.14	97.3	6.96	14.80	1473.
600	3.54	34.20	595	27.22	90.7	7.90	20.08	1474.
800	3.15	34.31	793	27.35	79.6	9.60	32.14	1475.
1000	2.86	34.37	990	27.42	73.4	11.12	46.13	1478.
1200	2.60	34.43	1188	27.49	67.3	12.52	61.78	1480.


TEMPERATURE, C
0
4
8
12
16
0
300
600
900
1200
1500
PRESSURE, DB
REF. NO. 77 - 9 - 9
50-0.0 N 145-0.0 W
MO.-12 DAY-13 GMT-17.5
31
32
33
34
35
SALINITY, O/OO

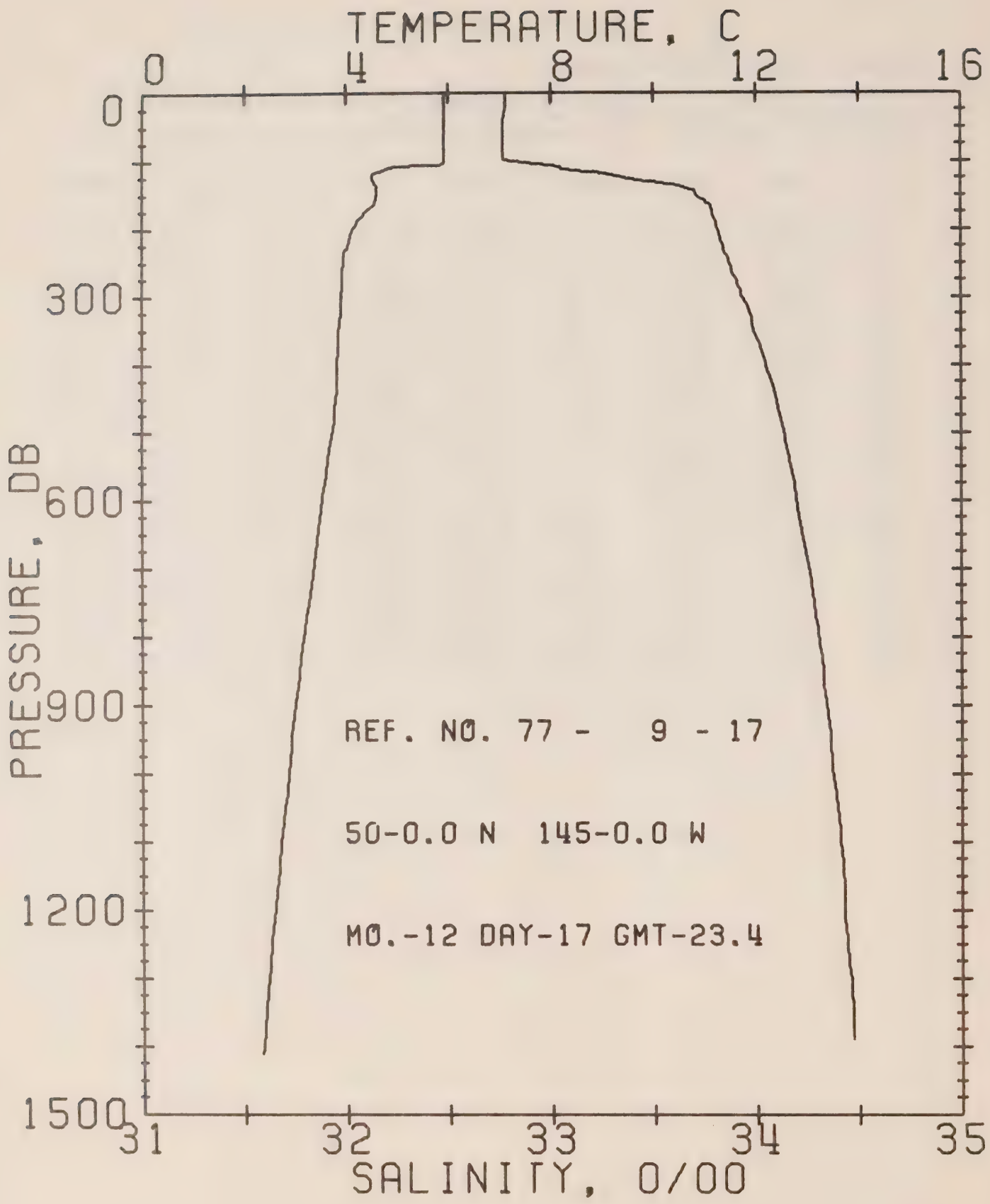
OFFSHORE OCEANOGRAPHY GROUP
REFERENCE NO. 77- 9- 9 DATE 13/12/77 STATION P
POSITION 50- 0.0N, 145- 0.0W GMT 17.5
RESULTS OF STP CAST 153 POINTS TAKEN FROM ANALOG TRACE

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.34	32.74	0	25.75	225.2	0.0	0.0	1473.
10	6.34	32.74	10	25.75	225.6	0.23	0.01	1474.
20	6.34	32.74	20	25.75	225.8	0.45	0.05	1474.
30	6.35	32.74	30	25.75	226.0	0.68	0.10	1474.
50	6.36	32.74	50	25.75	226.3	1.13	0.29	1474.
75	6.36	32.73	75	25.74	227.2	1.70	0.65	1475.
100	4.75	33.06	99	26.19	184.6	2.23	1.12	1469.
125	4.55	33.45	124	26.52	153.4	2.65	1.61	1469.
150	4.59	33.71	149	26.73	134.2	3.01	2.10	1470.
175	4.28	33.79	174	26.82	125.5	3.33	2.64	1469.
200	4.14	33.80	199	26.85	123.2	3.64	3.23	1469.
225	4.01	33.83	223	26.88	120.2	3.95	3.89	1469.
250	3.98	33.85	248	26.90	118.6	4.24	4.61	1469.
300	3.88	33.92	298	26.96	112.7	4.82	6.24	1470.
400	3.82	34.04	397	27.07	104.0	5.90	10.08	1471.
500	3.72	34.13	496	27.14	97.2	6.91	14.68	1473.
600	3.50	34.20	595	27.23	90.0	7.84	19.92	1473.
800	3.13	34.30	793	27.34	79.8	9.53	31.91	1475.
1000	2.88	34.37	990	27.42	73.7	11.06	45.94	1478.
1200	2.59	34.42	1188	27.48	67.8	12.47	61.74	1480.


TEMPERATURE, C
0
4
8
12
16
0
300
600
900
1200
1500
PRESSURE, DB
REF. NO. 77 - 9 - 10
50-0.0 N 145-0.0 W
MO.-12 DAY-16 GMT-17.8
31
32
33
34
35
SALINITY, O/OO

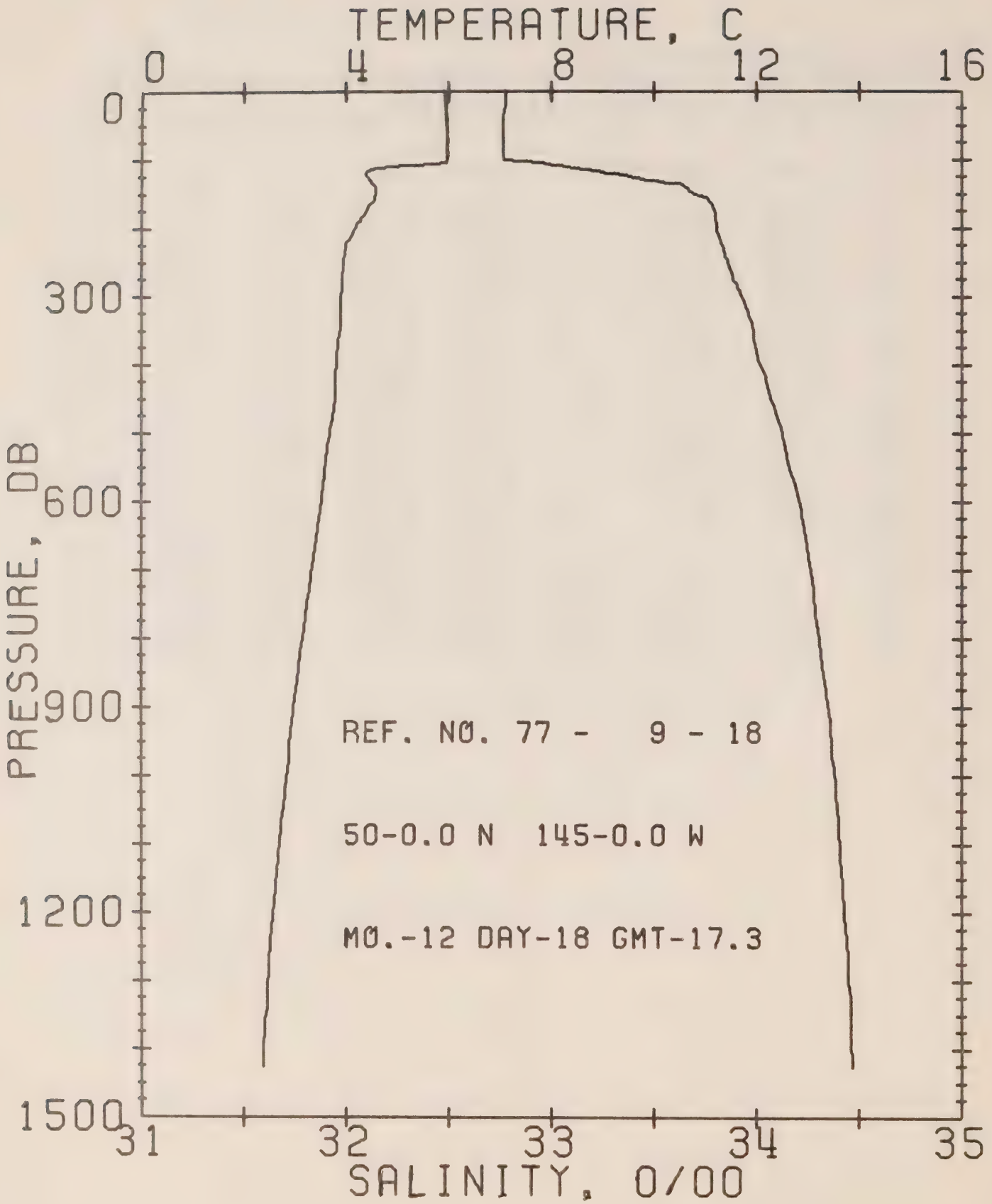
OFFSHORE OCEANOGRAPHY GROUP
REFERENCE NO. 77- 9- 10 DATE 16/12/77 STATION P
POSITION 50- 0.0N. 145- 0.0W GMT 17.8
RESULTS OF STP CAST 140 POINTS TAKEN FROM ANALOG TRACE

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.94	32.77	0	25.82	218.2	0.0	0.0	1472.
10	5.93	32.77	10	25.83	218.5	0.22	0.01	1472.
20	5.94	32.77	20	25.82	218.7	0.44	0.04	1472.
30	5.94	32.77	30	25.82	218.8	0.66	0.10	1472.
50	5.94	32.77	50	25.82	219.0	1.09	0.28	1473.
75	5.95	32.76	75	25.82	220.2	1.64	0.63	1473.
100	5.52	33.06	99	26.10	193.0	2.19	1.11	1472.
125	4.55	33.57	124	26.62	144.1	2.59	1.58	1469.
150	4.51	33.74	149	26.76	131.5	2.94	2.06	1470.
175	4.35	33.80	174	26.82	125.8	3.26	2.59	1470.
200	4.13	33.81	199	26.85	122.5	3.57	3.18	1469.
225	3.99	33.84	223	26.89	119.0	3.87	3.83	1469.
250	3.94	33.87	248	26.92	116.5	4.16	4.55	1469.
300	3.87	33.93	298	26.97	111.9	4.73	6.14	1470.
400	3.76	34.06	397	27.09	102.1	5.80	9.93	1471.
500	3.63	34.12	496	27.15	96.5	6.79	14.46	1472.
600	3.50	34.21	595	27.23	89.3	7.71	19.56	1473.
800	3.14	34.30	793	27.34	80.2	9.40	31.67	1475.
1000	2.83	34.38	990	27.43	72.5	10.93	45.64	1477.
1200	2.60	34.43	1188	27.49	67.4	12.33	61.30	1480.


TEMPERATURE, C
0
4
8
12
16
0
300
600
900
1200
1500
PRESSURE, DB
REF. NO. 77 - 9 - 17
50-0.0 N 145-0.0 W
MO.-12 DAY-17 GMT-23.4
31
32
33
34
35
SALINITY, O/OO

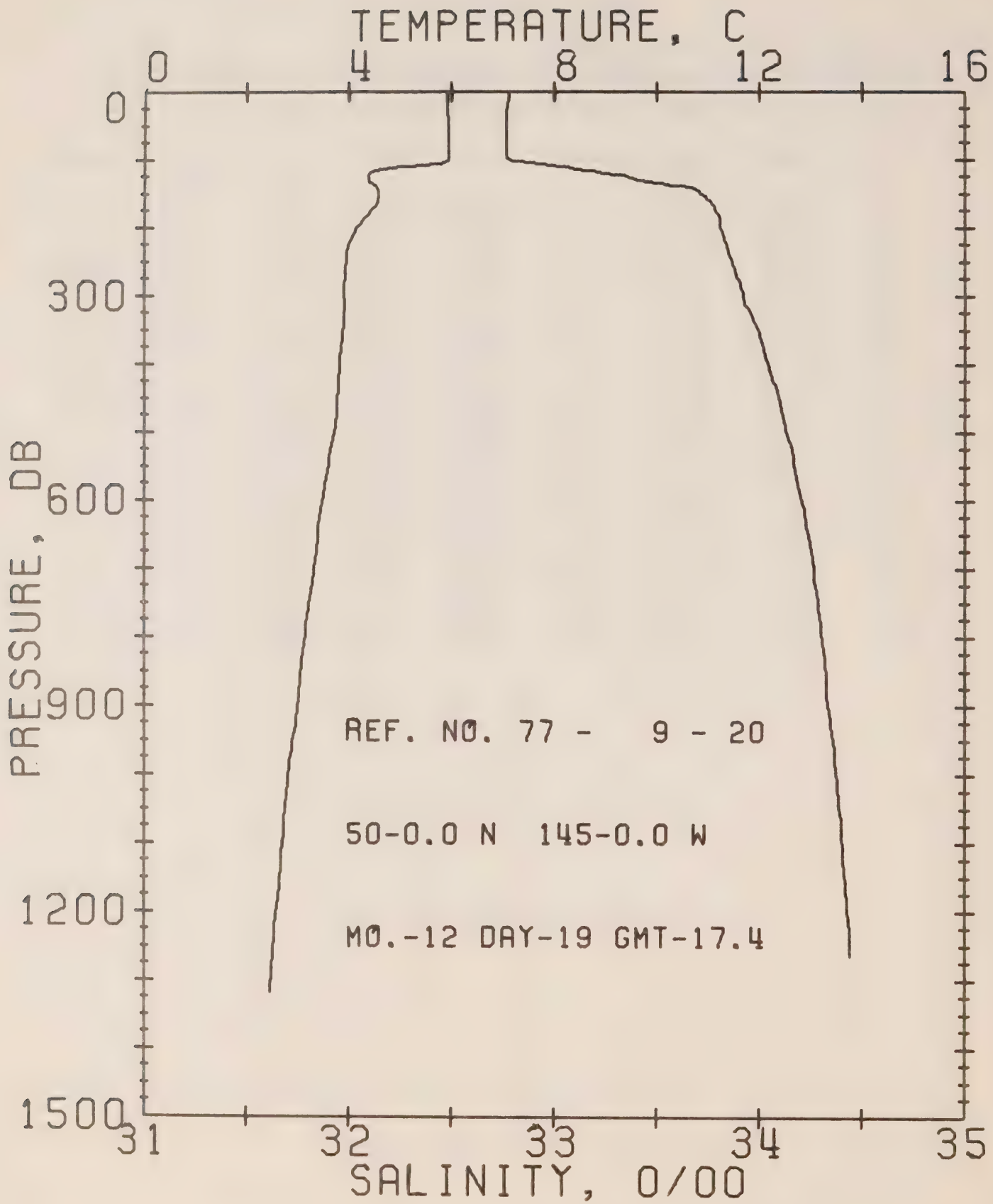
OFFSHORE OCEANOGRAPHY GROUP
REFERENCE NO. 77- 9- 17 DATE 17/12/77 STATION P
POSITION 50- 0.0N. 145- 0.0W GMT 23.4
RESULTS OF STP CAST 154 POINTS TAKEN FROM ANALOG TRACE

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.91	32.78	0	25.84	217.2	0.0	0.0	1472.
10	5.91	32.78	10	25.84	217.5	0.22	0.01	1472.
20	5.91	32.78	20	25.84	217.6	0.43	0.04	1472.
30	5.91	32.78	30	25.83	218.1	0.65	0.10	1472.
50	5.92	32.77	50	25.83	218.8	1.09	0.28	1473.
75	5.93	32.77	75	25.83	219.2	1.64	0.63	1473.
100	5.92	32.81	99	25.86	216.4	2.19	1.12	1473.
125	4.52	33.38	124	26.47	158.4	2.65	1.64	1469.
150	4.60	33.71	149	26.72	134.7	3.00	2.14	1470.
175	4.37	33.79	174	26.81	126.4	3.33	2.68	1470.
200	4.12	33.81	199	26.86	122.3	3.64	3.28	1469.
225	4.02	33.84	223	26.89	119.5	3.94	3.93	1469.
250	3.94	33.87	248	26.92	116.7	4.24	4.64	1469.
300	3.91	33.93	298	26.97	112.3	4.81	6.24	1470.
400	3.81	34.05	397	27.08	103.0	5.88	10.07	1471.
500	3.72	34.14	496	27.15	96.5	6.88	14.64	1473.
600	3.51	34.20	595	27.22	90.5	7.82	19.87	1474.
800	3.15	34.30	793	27.34	80.1	9.52	31.98	1475.
1000	2.85	34.37	990	27.42	73.0	11.04	45.93	1478.
1200	2.58	34.43	1188	27.49	67.0	12.43	61.48	1480.


TEMPERATURE, C
0
4
8
12
16
0
300
600
900
1200
1500
PRESSURE, DB
REF. NO. 77 - 9 - 18
50-0.0 N 145-0.0 W
MO.-12 DAY-18 GMT-17.3
31
32
33
34
35
SALINITY, O/OO

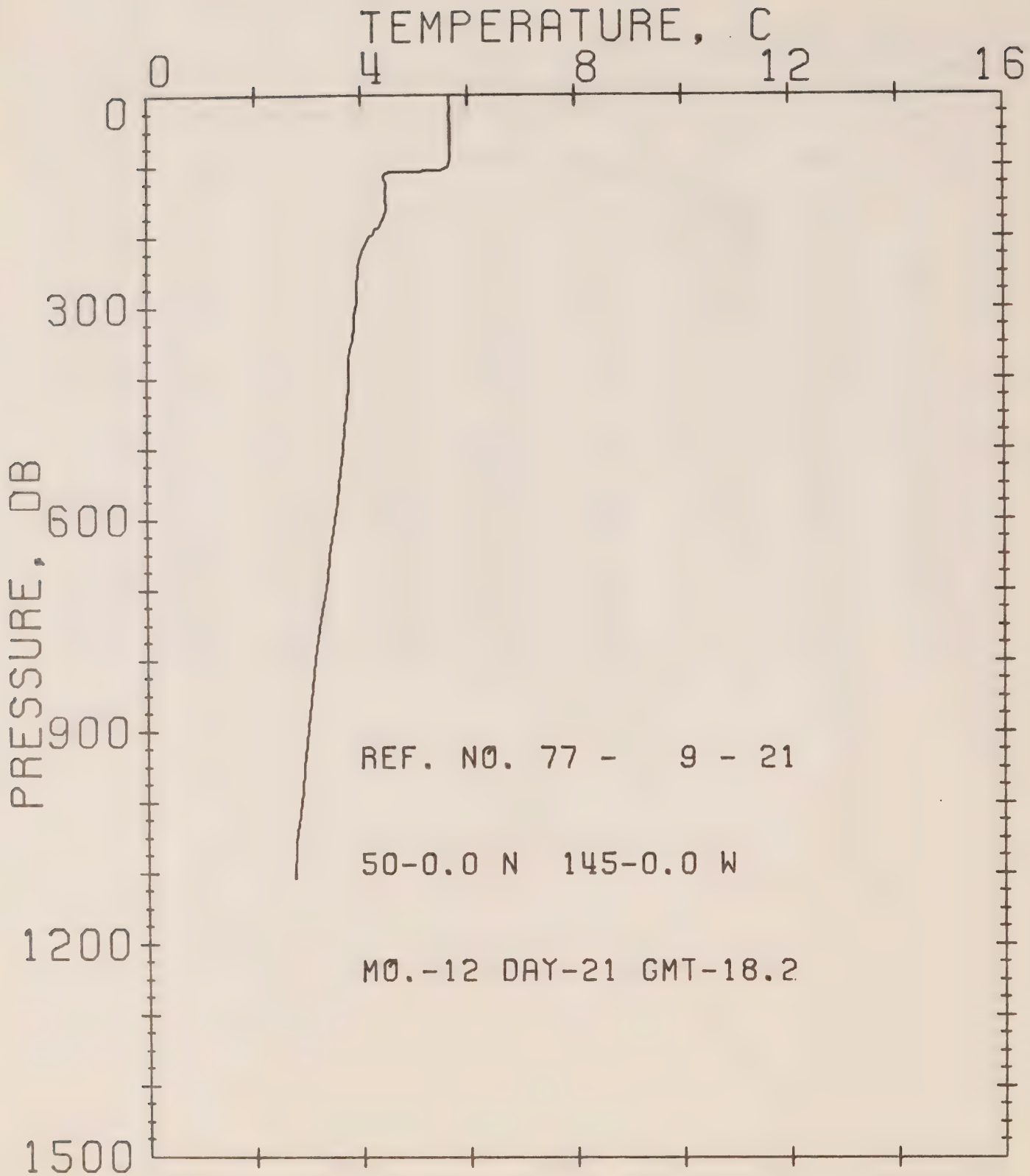
OFFSHORE OCEANOGRAPHY GROUP
REFERENCE NO. 77- 9- 18 DATE 18/12/77 STATION P
POSITION 50- 0.0N, 145- 0.0W GMT 17.3
RESULTS OF STP CAST 168 POINTS TAKEN FROM ANALOG TRACE

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.97	32.78	0	25.83	217.9	0.0	0.0	1472.
10	5.97	32.78	10	25.83	218.2	0.22	0.01	1472.
20	5.97	32.78	20	25.83	218.3	0.44	0.04	1472.
30	5.98	32.77	30	25.82	218.9	0.65	0.10	1473.
50	5.98	32.77	50	25.82	219.5	1.09	0.28	1473.
75	5.98	32.77	75	25.82	219.8	1.64	0.63	1473.
100	5.99	32.77	99	25.82	220.2	2.19	1.12	1474.
125	4.44	33.39	124	26.48	157.1	2.65	1.64	1469.
150	4.58	33.70	149	26.72	135.2	3.01	2.14	1470.
175	4.38	33.80	174	26.81	126.1	3.33	2.68	1470.
200	4.17	33.81	199	26.85	123.1	3.64	3.27	1469.
225	4.00	33.83	223	26.88	119.8	3.95	3.93	1469.
250	3.94	33.86	248	26.91	117.5	4.24	4.65	1469.
300	3.90	33.93	298	26.97	112.2	4.82	6.26	1470.
400	3.81	34.02	397	27.05	105.2	5.90	10.12	1471.
500	3.69	34.13	496	27.15	96.9	6.91	14.75	1473.
600	3.51	34.21	595	27.23	89.7	7.85	19.97	1474.
800	3.14	34.31	793	27.35	79.6	9.53	31.98	1475.
1000	2.83	34.38	990	27.43	72.1	11.05	45.85	1477.
1200	2.56	34.43	1188	27.49	66.9	12.44	61.41	1480.


TEMPERATURE, C
0
4
8
12
16
0
300
600
900
1200
1500
PRESSURE, DB
REF. NO. 77 - 9 - 20
50-0.0 N 145-0.0 W
MO.-12 DAY-19 GMT-17.4
31
32
33
34
35
SALINITY, O/OO

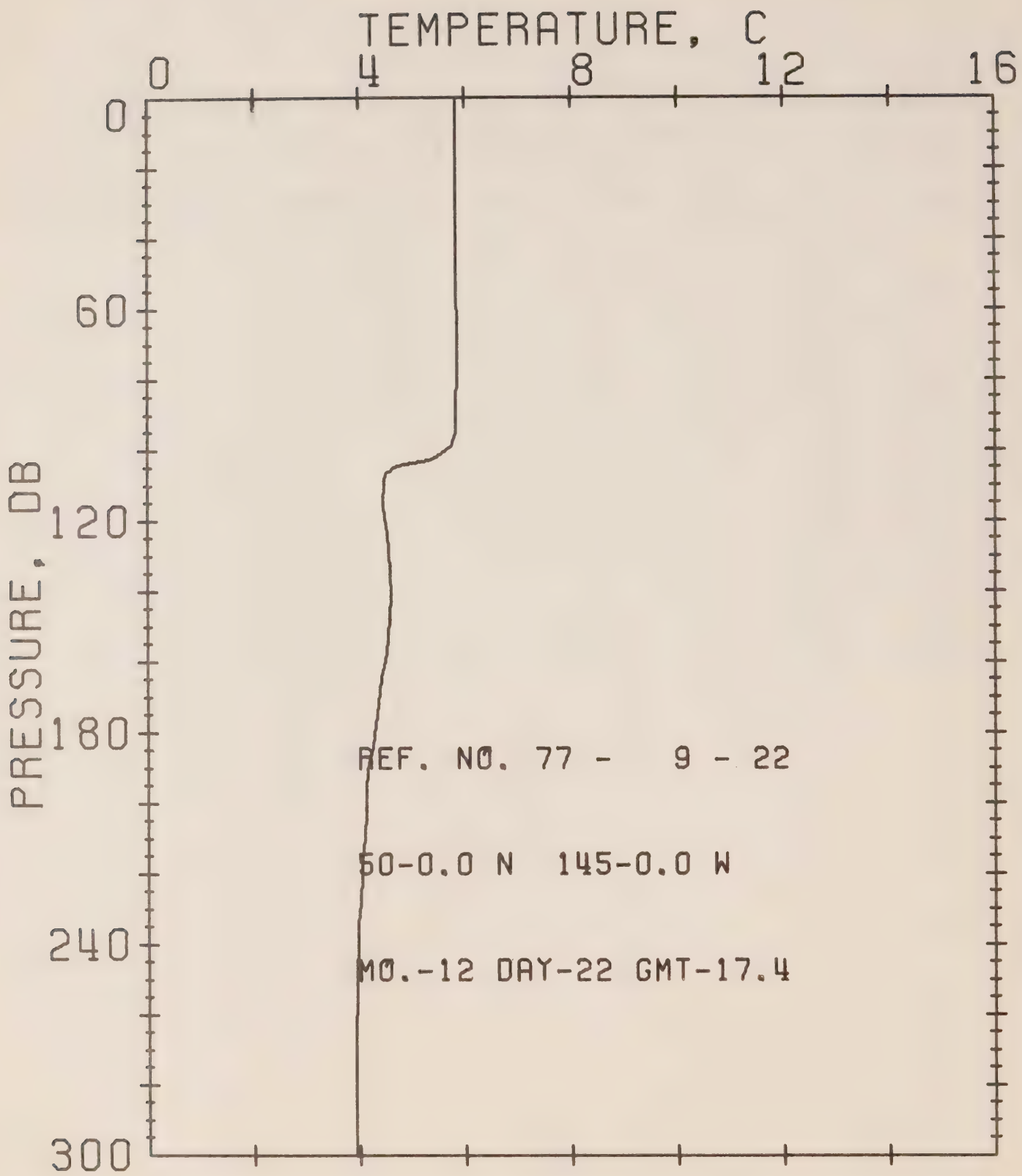
OFFSHORE OCEANOGRAPHY GROUP
REFERENCE NO. 77- 9- 20 DATE 19/12/77 STATION P
POSITION 50- 0.0N, 145- 0.0W GMT 17.4
RESULTS OF STP CAST 153 POINTS TAKEN FROM ANALOG TRACE

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.92	32.78	0	25.84	217.3	0.0	0.0	1472.
10	5.92	32.78	10	25.84	217.7	0.22	0.01	1472.
20	5.92	32.78	20	25.83	218.1	0.44	0.04	1472.
30	5.93	32.77	30	25.83	218.7	0.65	0.10	1472.
50	5.94	32.77	50	25.82	219.0	1.09	0.28	1473.
75	5.94	32.77	75	25.82	219.3	1.64	0.63	1473.
100	5.93	32.78	99	25.84	218.4	2.19	1.12	1474.
125	4.39	33.36	124	26.47	158.5	2.66	1.65	1468.
150	4.60	33.71	149	26.73	134.2	3.02	2.15	1470.
175	4.42	33.79	174	26.80	127.4	3.34	2.69	1470.
200	4.16	33.81	199	26.85	123.0	3.65	3.29	1469.
225	3.98	33.84	223	26.89	119.3	3.96	3.94	1469.
250	3.94	33.87	248	26.92	116.9	4.25	4.66	1469.
300	3.90	33.92	298	26.96	112.9	4.83	6.26	1470.
400	3.81	34.04	397	27.07	103.8	5.91	10.11	1471.
500	3.71	34.13	496	27.15	96.6	6.91	14.69	1473.
600	3.48	34.21	595	27.23	89.4	7.83	19.88	1473.
800	3.13	34.30	793	27.34	79.8	9.51	31.85	1475.
1000	2.81	34.38	990	27.43	72.4	11.04	45.79	1477.
1200	2.57	34.43	1188	27.49	66.9	12.43	61.38	1480.


TEMPERATURE, C
0
4
8
12
16
0
300
600
900
1200
1500
PRESSURE, DB
REF. NO. 77 - 9 - 21
50-0.0 N 145-0.0 W
MO.-12 DAY-21 GMT-18.2

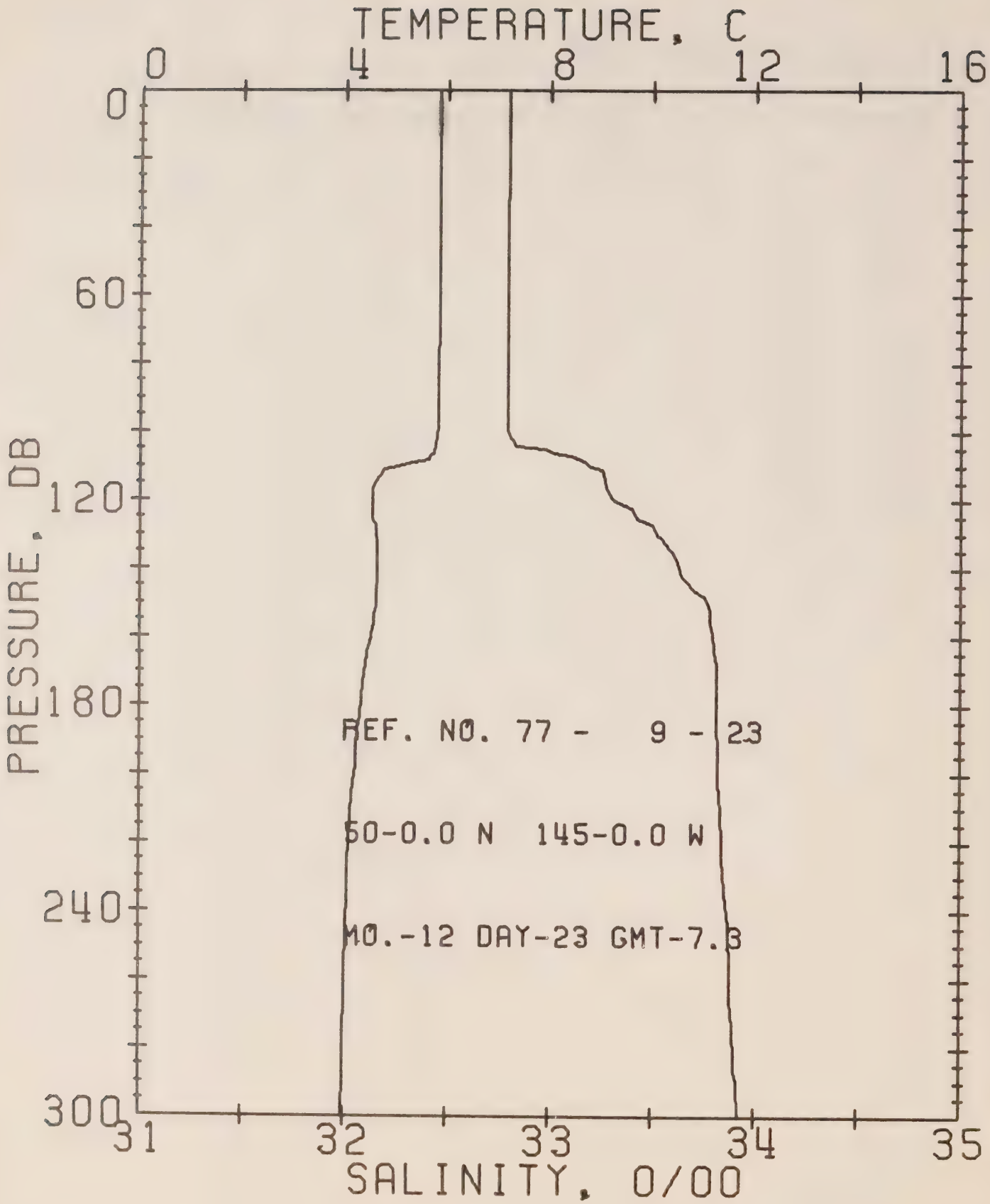
OFFSHORE OCEANOGRAPHY GROUP
REFERENCE NO. 77- 4- 21 DATE 21/12/77 STATION P
POSITION 50- 0.0N, 145- 0.0W GMT 18.2
RESULTS OF STD CAST 82 POINTS TAKEN FROM ANALOG TRACE

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.67							
10	5.66							
20	5.67							
30	5.66							
50	5.68							
75	5.68							
100	5.65							
125	4.45							
150	4.47							
175	4.44							
200	4.16							
225	4.01							
250	3.96							
300	3.90							
400	3.76							
500	3.65							
600	3.50							
800	3.12							
1000	2.95							


TEMPERATURE, C
0
4
8
12
16
0
60
120
180
240
300
PRESSURE, DB
REF. NO. 77 - 9 - 22
50-0.0 N 145-0.0 W
MO.-12 DAY-22 GMT-17.4

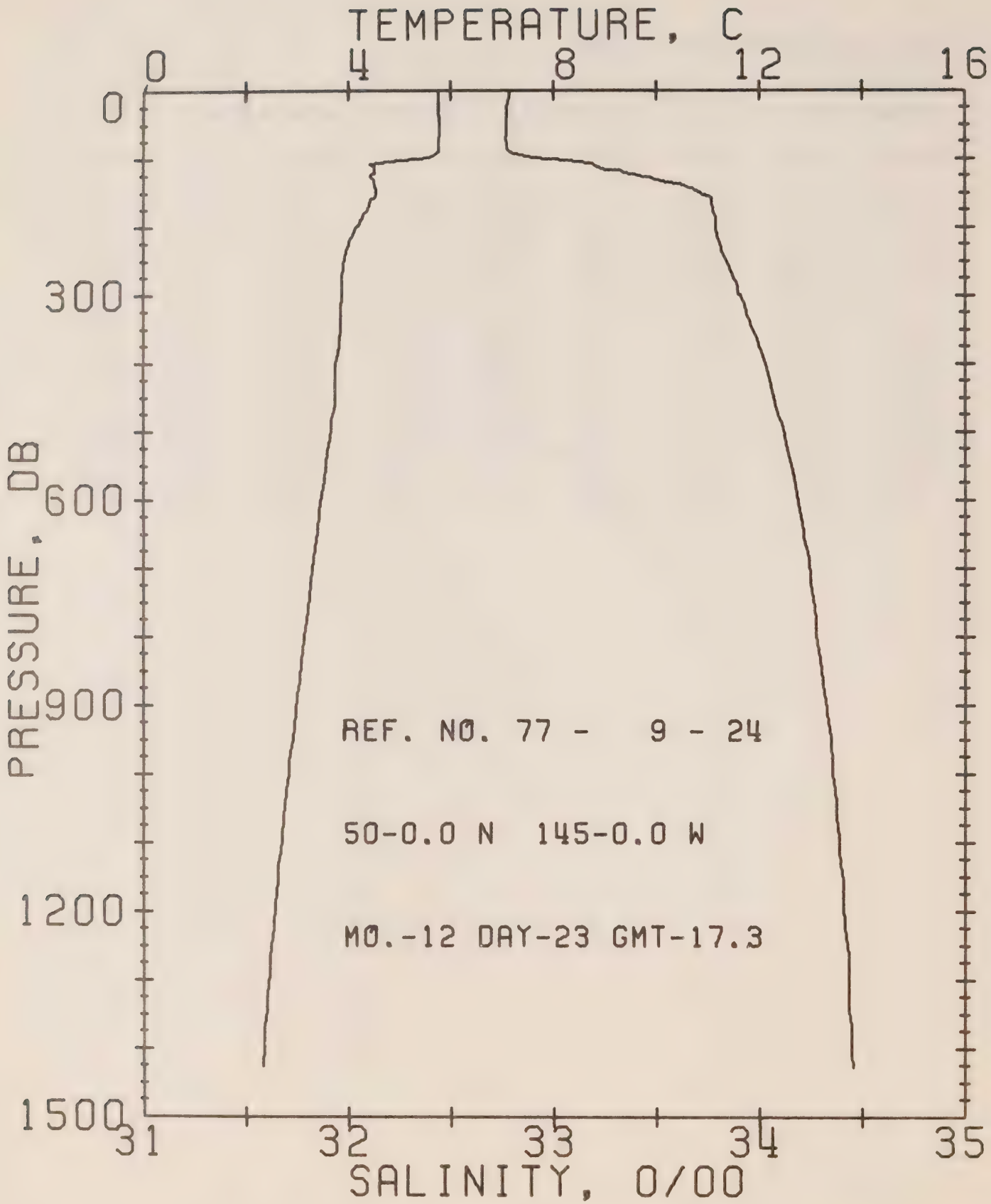
OFFSHORE OCEANOGRAPHY GROUP
REFERENCE NO. 77- 9- 22 DATE 22/12/77 STATION P
POSITION 50- 0.0N, 145- 0.0W GMT 17.4
RESULTS OF STP CAST 47 POINTS TAKEN FROM ANALOG TRACE

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.85							
10	5.84							
20	5.84							
30	5.84							
50	5.85							
75	5.86							
100	5.67							
125	4.54							
150	4.57							
175	4.35							
200	4.13							
225	4.03							
250	3.95							
300	3.92							


TEMPERATURE, C
0
4
8
12
16
0
60
120
180
240
300
PRESSURE, DB
REF. NO. 77 - 9 - 23
60-0.0 N 145-0.0 W
MO.-12 DAY-23 GMT-7.3
31
32
33
34
35
SALINITY, O/OO

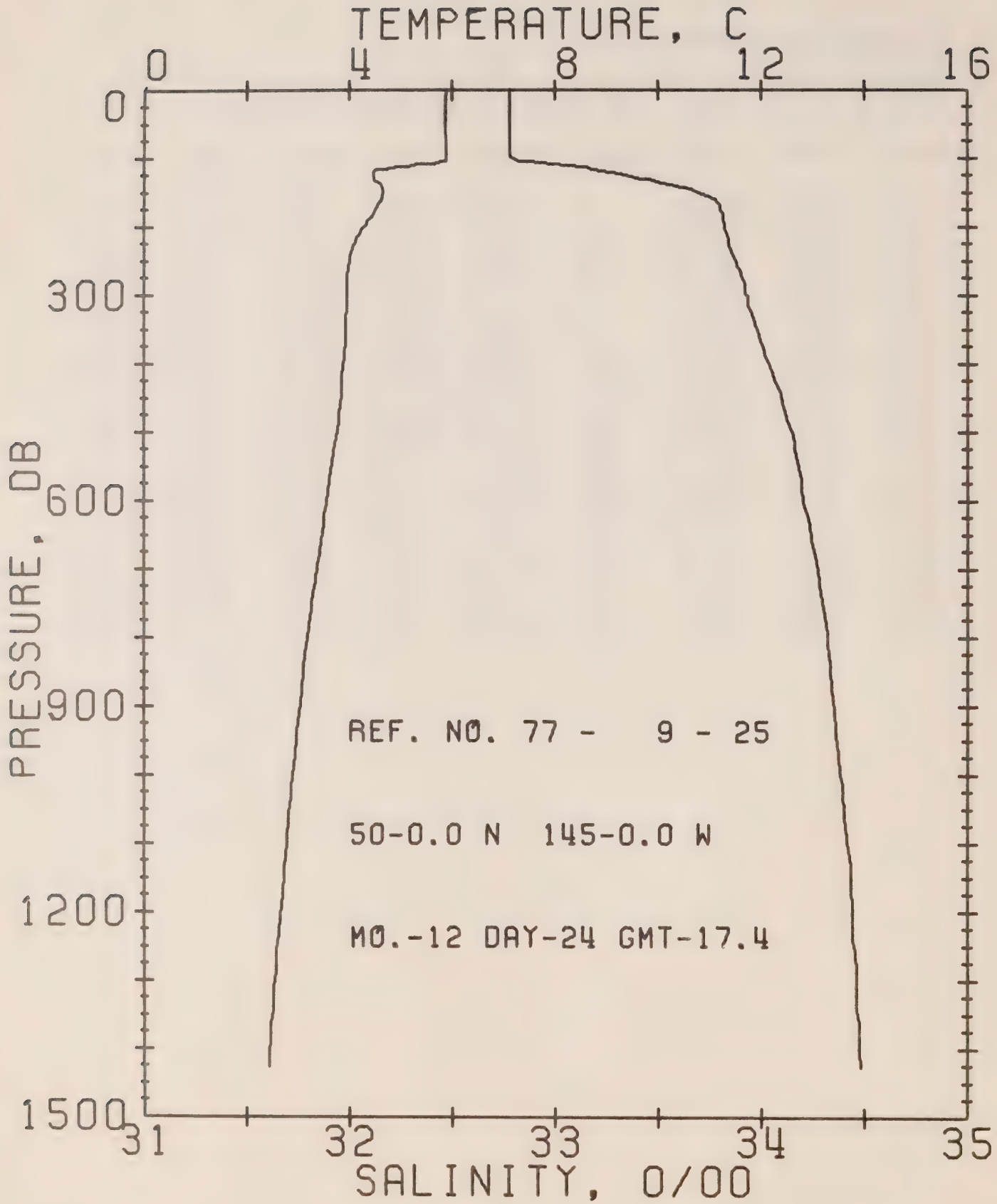
OFFSHORE OCEANOGRAPHY GROUP
REFERENCE NO. 77- 9- 23 DATE 23/12/77 STATION P
POSITION 50- 0.0N, 145- 0.0W GMT 7.3
RESULTS OF STP CAST 82 POINTS TAKEN FROM ANALOG TRACE

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.78	32.79	0	25.86	214.9	0.0	0.0	1471.
10	5.78	32.79	10	25.86	215.2	0.22	0.01	1471.
20	5.78	32.79	20	25.86	215.3	0.43	0.04	1472.
30	5.78	32.79	30	25.86	215.8	0.65	0.10	1472.
50	5.79	32.78	50	25.85	216.6	1.08	0.28	1472.
75	5.77	32.78	75	25.85	216.6	1.62	0.62	1472.
100	5.74	32.78	99	25.86	216.5	2.16	1.10	1473.
125	4.49	33.41	124	26.50	155.8	2.61	1.61	1469.
150	4.55	33.75	149	26.76	131.0	2.97	2.11	1470.
175	4.29	33.80	174	26.83	124.9	3.29	2.64	1469.
200	4.12	33.81	199	26.85	122.6	3.60	3.23	1469.
225	4.01	33.83	223	26.88	120.1	3.90	3.89	1469.
250	3.96	33.86	248	26.91	117.4	4.19	4.61	1469.
300	3.89	33.91	298	26.96	113.5	4.77	6.23	1470.


TEMPERATURE, C
0
4
8
12
16
0
300
600
900
1200
1500
PRESSURE, DB
REF. NO. 77 - 9 - 24
50-0.0 N 145-0.0 W
MO.-12 DAY-23 GMT-17.3
31
32
33
34
35
SALINITY, O/OO

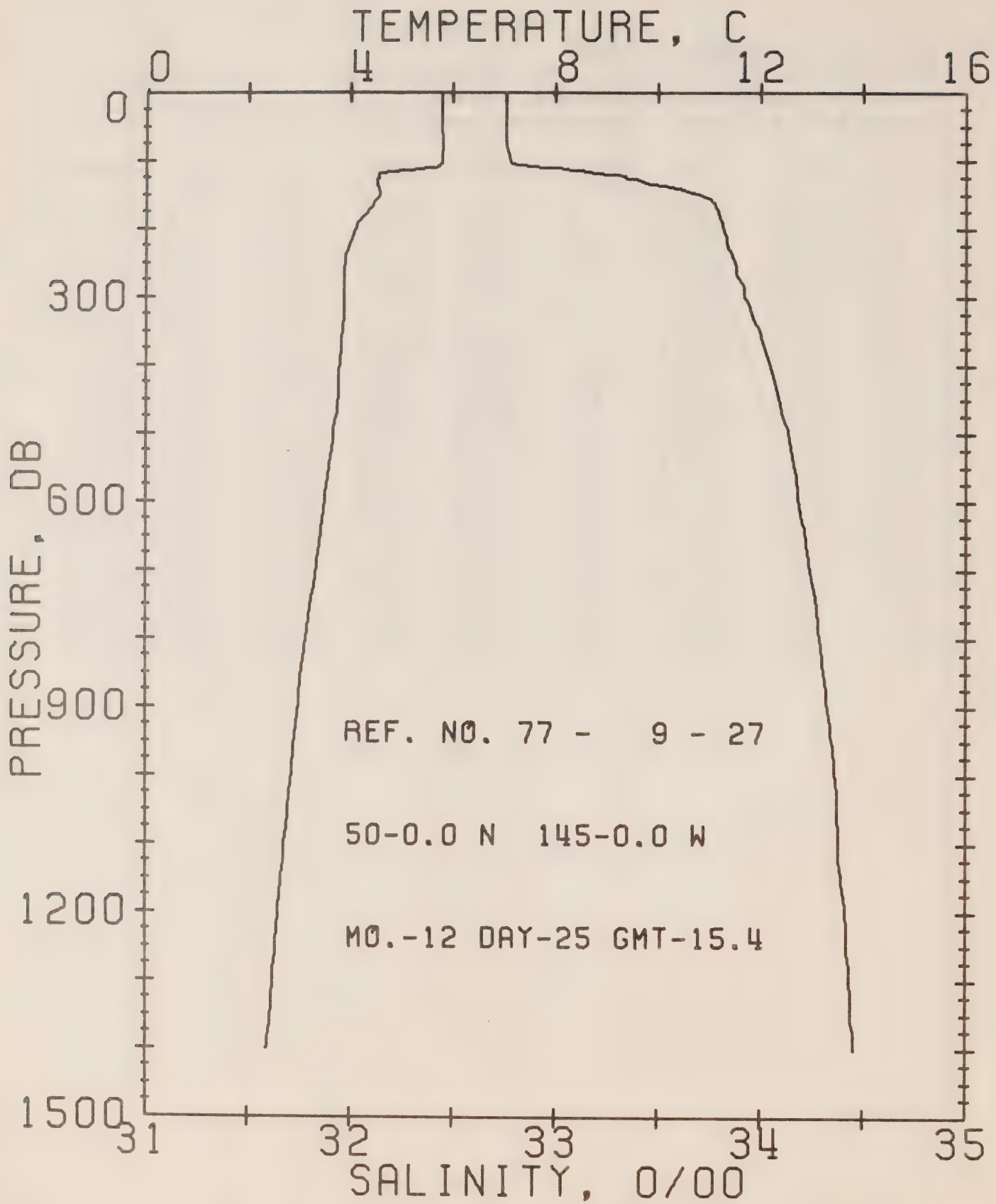
OFFSHORE OCEANOGRAPHY GROUP
REFERENCE NO. 77- 9- 24 DATE 23/12/77 STATION P
POSITION 50- 0.0N, 145- 0.0W GMT 17.3
RESULTS OF STP CAST 164 POINTS TAKEN FROM ANALOG TRACE

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.82	32.80	0	25.86	214.6	0.0	0.0	1471.
10	5.82	32.80	10	25.86	215.0	0.21	0.01	1472.
20	5.82	32.79	20	25.86	215.6	0.43	0.04	1472.
30	5.82	32.79	30	25.85	216.0	0.65	0.10	1472.
50	5.83	32.79	50	25.85	216.3	1.08	0.28	1472.
75	5.82	32.78	75	25.85	216.9	1.62	0.62	1473.
100	5.49	32.97	99	26.04	199.4	2.15	1.10	1472.
125	4.50	33.45	124	26.53	152.9	2.58	1.58	1469.
150	4.59	33.73	149	26.74	133.3	2.94	2.08	1470.
175	4.40	33.79	174	26.81	126.8	3.26	2.61	1470.
200	4.20	33.80	199	26.84	124.1	3.57	3.21	1469.
225	4.05	33.82	223	26.87	121.2	3.88	3.88	1469.
250	3.96	33.85	248	26.90	118.3	4.18	4.60	1469.
300	3.91	33.92	298	26.96	113.0	4.75	6.22	1470.
400	3.80	34.04	397	27.07	103.8	5.84	10.08	1471.
500	3.69	34.13	496	27.15	96.4	6.84	14.68	1473.
600	3.50	34.20	595	27.23	90.1	7.78	19.90	1473.
800	3.18	34.29	793	27.33	81.4	9.48	32.04	1476.
1000	2.87	34.37	990	27.42	73.5	11.02	46.16	1478.
1200	2.61	34.42	1188	27.48	67.8	12.43	61.91	1480.


TEMPERATURE, C
0
4
8
12
16
0
300
600
900
1200
1500
PRESSURE, DB
REF. NO. 77 - 9 - 25
50-0.0 N 145-0.0 W
MO.-12 DAY-24 GMT-17.4
31
32
33
34
35
SALINITY, O/OO

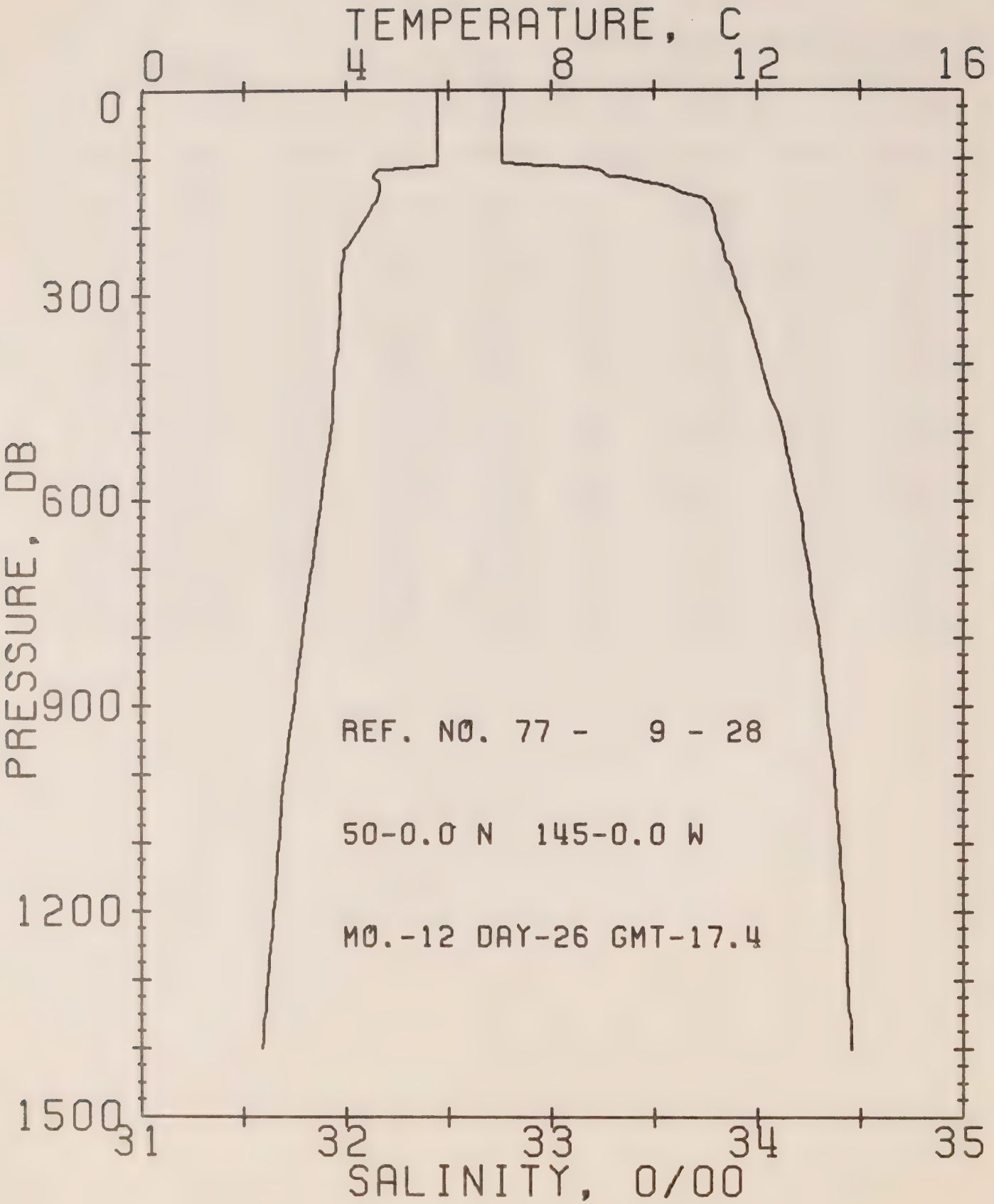
OFFSHORE OCEANOGRAPHY GROUP
REFERENCE NO. 77- 9- 25 DATE 24/12/77 STATION P
POSITION 50- 0.0N, 145- 0.0W GMT 17.4
RESULTS OF STP CAST 164 POINTS TAKEN FROM ANALOG TRACE

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.83	32.77	0	25.84	217.0	0.0	0.0	1471.
10	5.82	32.77	10	25.84	217.2	0.22	0.01	1472.
20	5.82	32.77	20	25.84	217.3	0.43	0.04	1472.
30	5.82	32.77	30	25.84	217.4	0.65	0.10	1472.
50	5.82	32.77	50	25.84	217.6	1.09	0.28	1472.
75	5.83	32.77	75	25.84	218.0	1.63	0.62	1473.
100	5.83	32.78	99	25.85	217.6	2.18	1.11	1473.
125	4.44	33.33	124	26.44	160.9	2.64	1.64	1468.
150	4.61	33.68	149	26.70	137.2	3.01	2.16	1470.
175	4.44	33.79	174	26.80	127.2	3.34	2.70	1470.
200	4.22	33.81	199	26.84	123.6	3.65	3.30	1469.
225	4.02	33.83	223	26.88	120.3	3.96	3.96	1469.
250	3.94	33.86	248	26.91	117.3	4.26	4.68	1469.
300	3.90	33.92	298	26.96	112.9	4.83	6.29	1470.
400	3.82	34.02	397	27.05	105.2	5.93	10.19	1471.
500	3.69	34.13	496	27.15	96.3	6.93	14.80	1473.
600	3.49	34.19	595	27.22	90.9	7.87	20.03	1473.
800	3.12	34.31	793	27.35	79.4	9.56	32.08	1475.
1000	2.83	34.37	990	27.42	73.0	11.09	46.06	1477.
1200	2.60	34.43	1188	27.49	67.3	12.48	61.71	1480.


TEMPERATURE, C
0
4
8
12
16
0
300
600
900
1200
1500
PRESSURE, DB
REF. NO. 77 - 9 - 27
50-0.0 N 145-0.0 W
MO.-12 DAY-25 GMT-15.4
31
32
33
34
35
SALINITY, O/OO

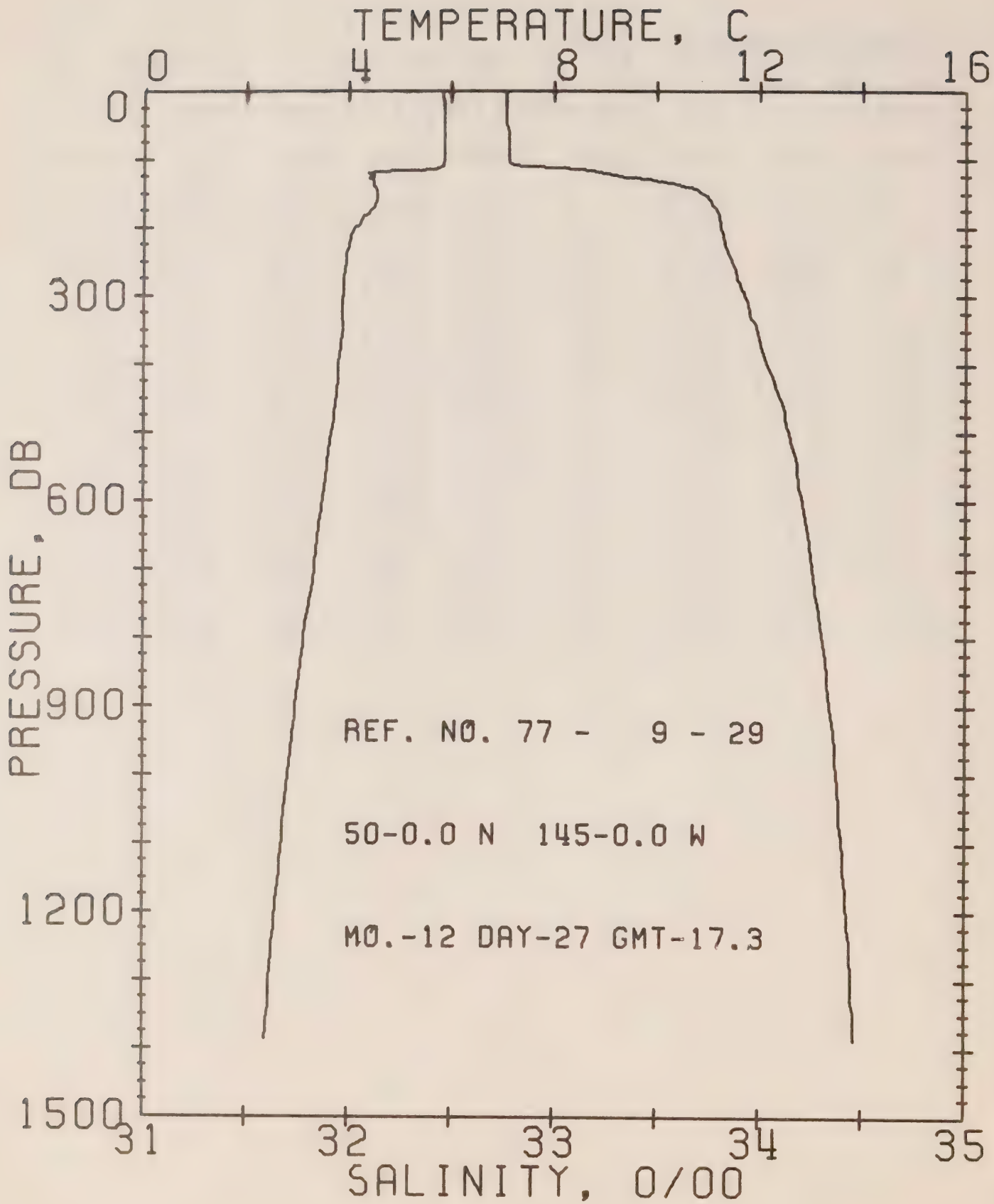
OFFSHORE OCEANOGRAPHY GROUP
REFERENCE NO. 77- 9- 27 DATE 25/12/77 STATION P
POSITION 50- 0.0N, 145- 0.0W GMT 15.4
RESULTS OF STP CAST 148 POINTS TAKEN FROM ANALOG TRACE

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.80	32.77	0	25.84	216.6	0.0	0.0	1471.
10	5.81	32.77	10	25.84	217.1	0.22	0.01	1472.
20	5.82	32.77	20	25.84	217.3	0.43	0.04	1472.
30	5.82	32.77	30	25.84	217.4	0.65	0.10	1472.
50	5.82	32.77	50	25.84	217.6	1.09	0.28	1472.
75	5.83	32.77	75	25.84	218.0	1.63	0.62	1473.
100	5.81	32.79	99	25.85	216.8	2.18	1.11	1473.
125	4.59	33.36	124	26.45	160.5	2.65	1.65	1469.
150	4.60	33.71	149	26.72	134.7	3.02	2.17	1470.
175	4.34	33.80	174	26.82	125.4	3.34	2.70	1470.
200	4.11	33.82	199	26.87	121.4	3.65	3.29	1469.
225	3.99	33.85	223	26.89	118.8	3.95	3.94	1469.
250	3.92	33.88	248	26.93	115.6	4.24	4.64	1469.
300	3.89	33.93	298	26.97	112.1	4.81	6.23	1470.
400	3.80	34.05	397	27.08	102.8	5.88	10.05	1471.
500	3.67	34.14	496	27.16	95.6	6.87	14.60	1472.
600	3.50	34.19	595	27.22	90.8	7.80	19.81	1473.
800	3.14	34.30	793	27.33	80.7	9.51	31.97	1475.
1000	2.86	34.37	990	27.42	73.3	11.05	46.02	1478.
1200	2.61	34.42	1188	27.48	68.0	12.47	61.93	1480.


TEMPERATURE, C
0
4
8
12
16
0
300
600
900
1200
1500
PRESSURE, DB
REF. NO. 77 - 9 - 28
50-0.0 N 145-0.0 W
MO.-12 DAY-26 GMT-17.4
31
32
33
34
35
SALINITY, O/OO

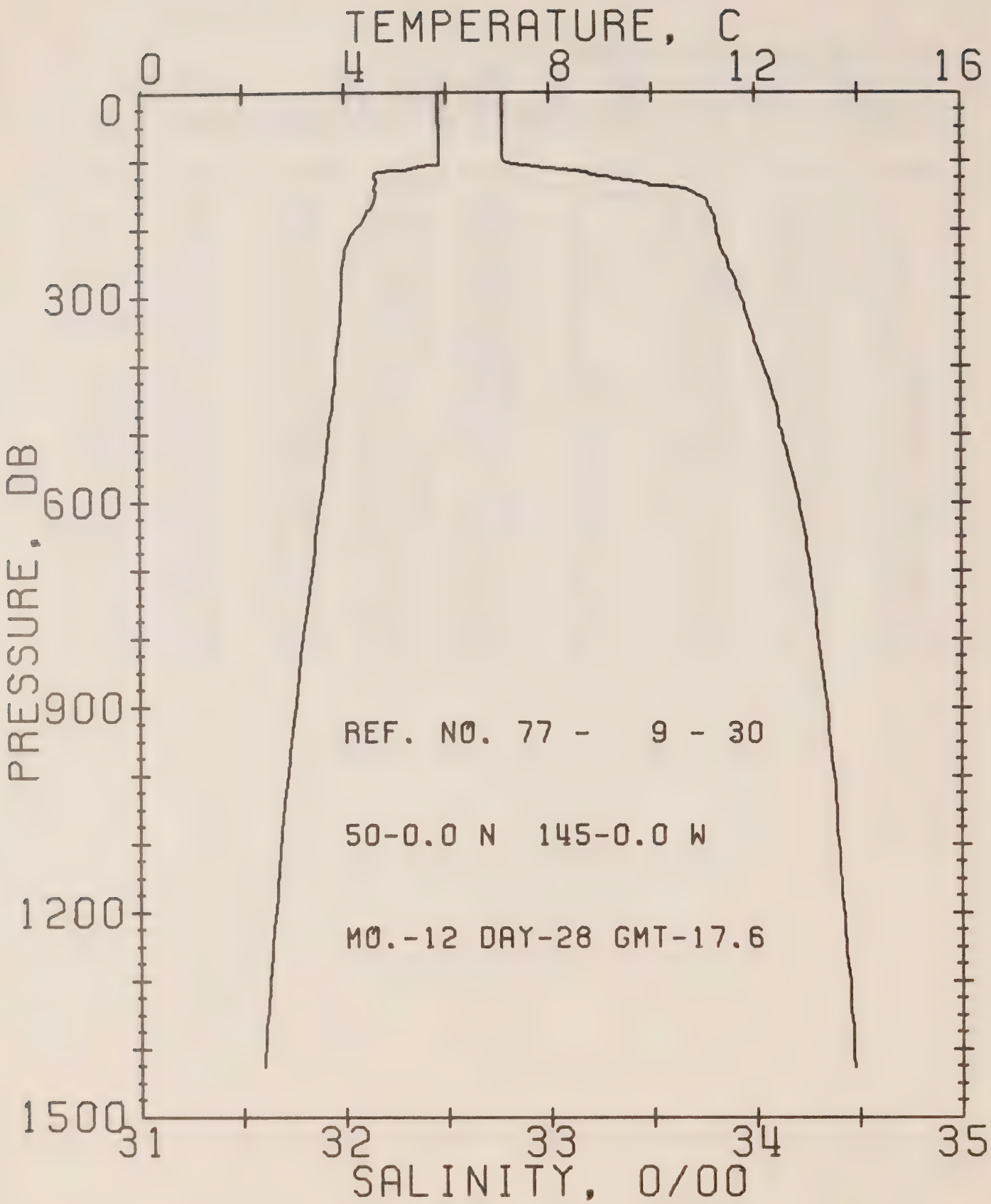
OFFSHORE OCEANOGRAPHY GROUP
REFERENCE NO. 77- 9- 28 DATE 26/12/77 STATION P
POSITION 50- 0.0N, 145- 0.0W GMT 17.4
RESULTS OF STP CAST 141 POINTS TAKEN FROM ANALOG TRACE

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.81	32.78	0	25.85	216.0	0.0	0.0	1471.
10	5.80	32.78	10	25.85	216.2	0.22	0.01	1472.
20	5.80	32.78	20	25.85	216.3	0.43	0.04	1472.
30	5.80	32.78	30	25.85	216.6	0.65	0.10	1472.
50	5.80	32.77	50	25.84	217.2	1.08	0.28	1472.
75	5.80	32.77	75	25.84	217.7	1.63	0.62	1473.
100	5.81	32.77	99	25.84	218.1	2.17	1.11	1473.
125	4.53	33.29	124	26.40	165.2	2.65	1.65	1469.
150	4.66	33.65	149	26.67	139.5	3.03	2.18	1470.
175	4.48	33.79	174	26.80	127.7	3.36	2.72	1470.
200	4.29	33.81	199	26.83	124.4	3.67	3.33	1470.
225	4.07	33.84	223	26.88	120.2	3.98	3.99	1469.
250	3.96	33.86	248	26.91	117.6	4.27	4.71	1469.
300	3.90	33.92	298	26.96	112.9	4.85	6.32	1470.
400	3.81	34.02	397	27.05	105.0	5.94	10.19	1471.
500	3.72	34.13	496	27.15	96.9	6.95	14.82	1473.
600	3.52	34.20	595	27.23	90.2	7.88	20.06	1474.
800	3.15	34.31	793	27.34	80.0	9.58	32.16	1475.
1000	2.81	34.38	990	27.43	72.0	11.11	46.11	1477.
1200	2.60	34.43	1188	27.49	67.3	12.50	61.73	1480.


TEMPERATURE, C
0
4
8
12
16
0
300
600
900
1200
1500
PRESSURE, DB
REF. NO. 77 - 9 - 29
50-0.0 N 145-0.0 W
MO.-12 DAY-27 GMT-17.3
31
32
33
34
35
SALINITY, O/OO

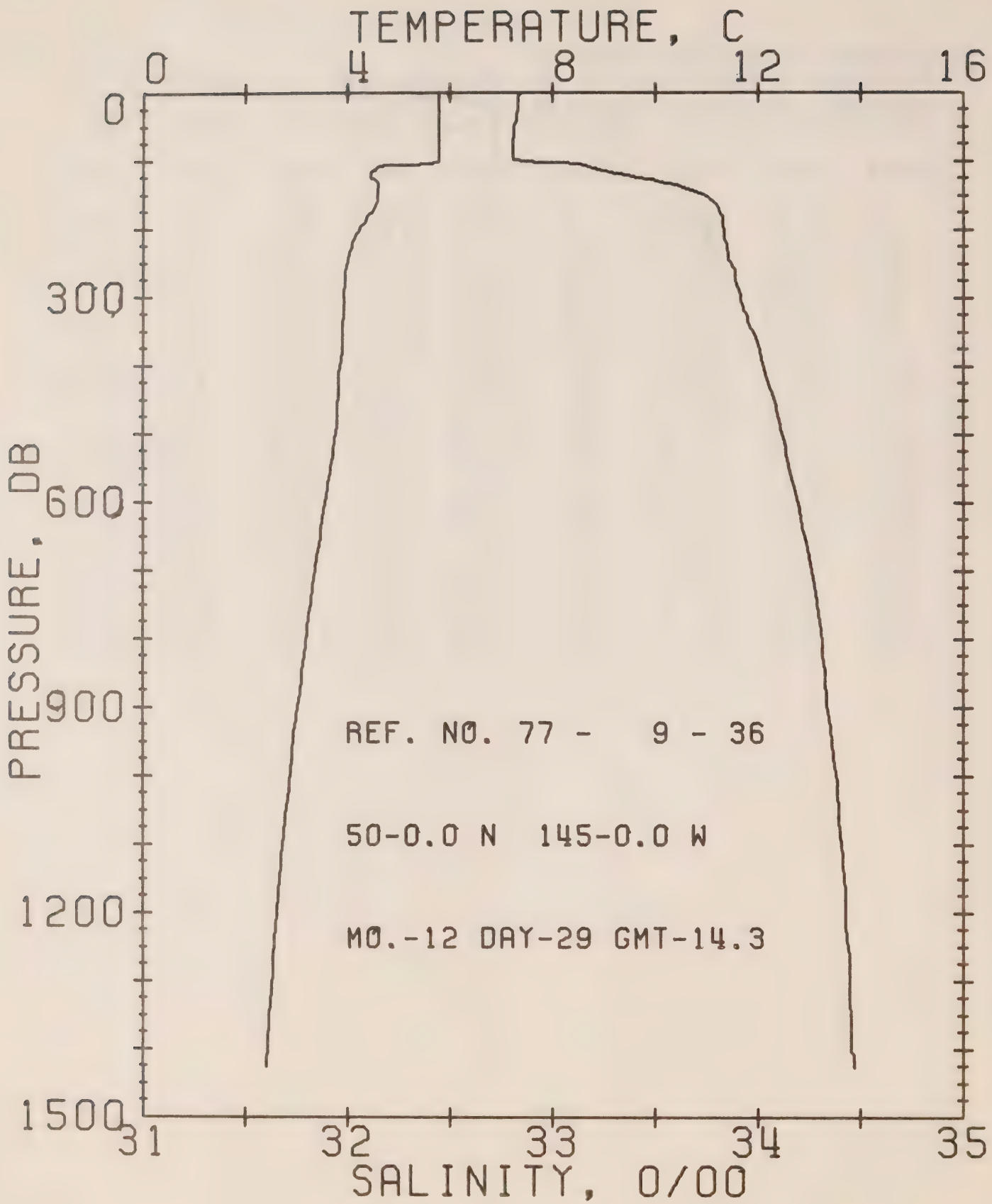
OFFSHORE OCEANOGRAPHY GROUP
REFERENCE NO. 77- 9- 29 DATE 27/12/77 STATION P
POSITION 50- 0.0N, 145- 0.0W GMT 17.3
RESULTS OF STP CAST 155 POINTS TAKEN FROM ANALOG TRACE

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.83	32.76	0	25.83	217.8	0.0	0.0	1471.
10	5.85	32.77	10	25.84	217.5	0.22	0.01	1472.
20	5.86	32.77	20	25.83	217.8	0.44	0.04	1472.
30	5.86	32.77	30	25.83	217.9	0.65	0.10	1472.
50	5.86	32.77	50	25.84	218.0	1.09	0.28	1472.
75	5.87	32.78	75	25.84	217.8	1.63	0.62	1473.
100	5.86	32.78	99	25.84	217.9	2.18	1.11	1473.
125	4.49	33.35	124	26.45	160.3	2.67	1.67	1469.
150	4.56	33.72	149	26.74	133.2	3.02	2.16	1470.
175	4.43	33.79	174	26.81	127.0	3.35	2.70	1470.
200	4.13	33.81	199	26.85	122.7	3.66	3.30	1469.
225	3.99	33.83	223	26.88	120.0	3.96	3.95	1469.
250	3.94	33.86	248	26.91	117.4	4.26	4.67	1469.
300	3.89	33.92	298	26.96	112.8	4.83	6.28	1470.
400	3.79	34.04	397	27.07	104.0	5.92	10.14	1471.
500	3.65	34.14	496	27.16	95.4	6.91	14.69	1472.
600	3.48	34.20	595	27.23	89.6	7.83	19.86	1473.
800	3.12	34.30	793	27.34	79.9	9.53	31.92	1475.
1000	2.83	34.38	990	27.43	72.7	11.05	45.83	1477.
1200	2.57	34.43	1188	27.49	67.3	12.44	61.49	1480.


TEMPERATURE, C
0
4
8
12
16
0
300
600
900
1200
1500
PRESSURE, DB
REF. NO. 77 - 9 - 30
50-0.0 N 145-0.0 W
MO.-12 DAY-28 GMT-17.6
31
32
33
34
35
SALINITY, O/OO

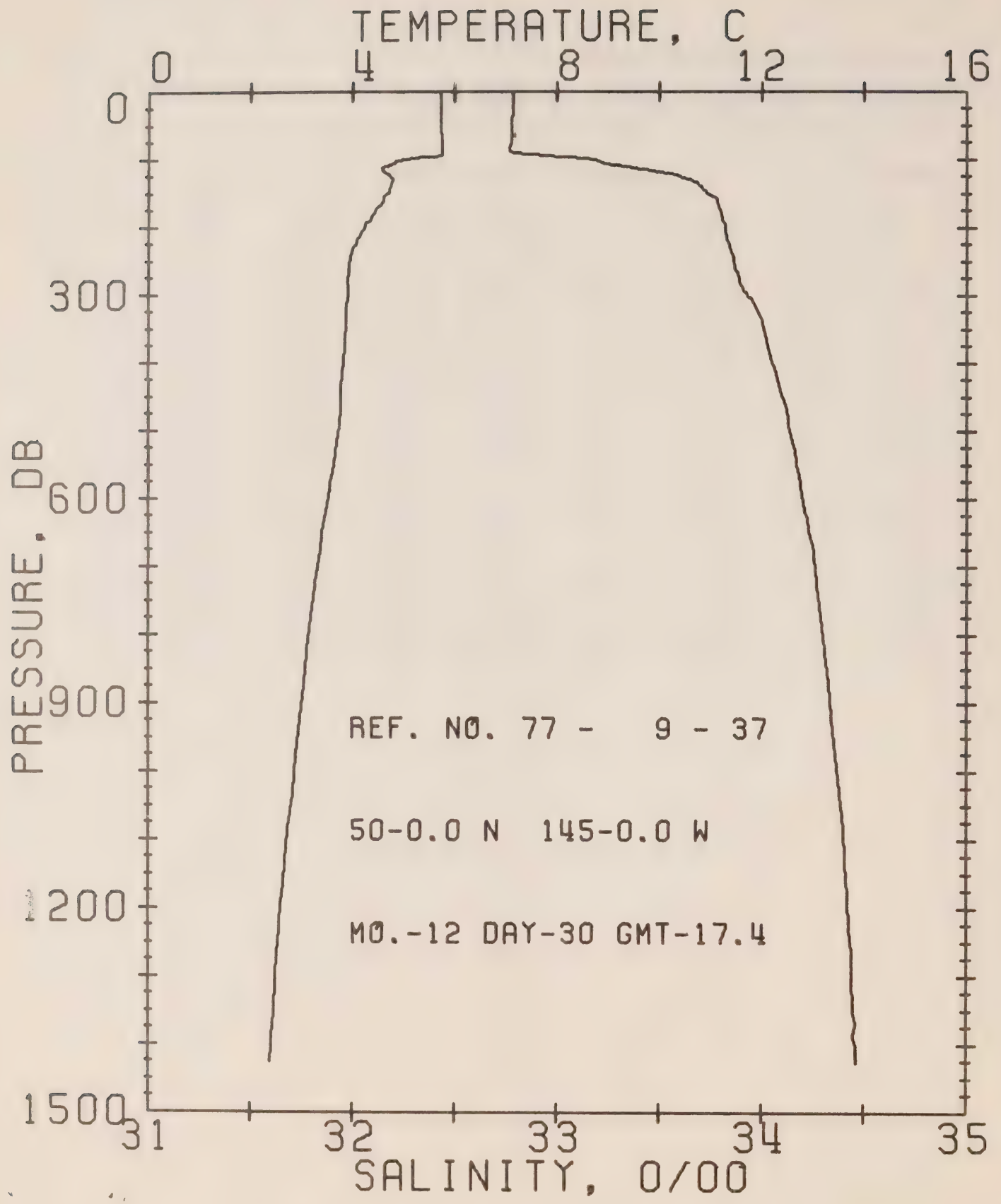
OFFSHORE OCEANOGRAPHY GROUP
REFERENCE NO. 77- 9- 30 DATE 28/12/77 STATION P
POSITION 50- 0.0N, 145- 0.0W GMT 17.6
RESULTS OF STP CAST 165 POINTS TAKEN FROM ANALOG TRACE

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.80	32.78	0	25.85	215.9	0.0	0.0	1471.
10	5.81	32.77	10	25.84	217.0	0.22	0.01	1472.
20	5.81	32.77	20	25.84	217.2	0.43	0.04	1472.
30	5.82	32.77	30	25.84	217.4	0.65	0.10	1472.
50	5.83	32.77	50	25.84	217.7	1.09	0.28	1472.
75	5.84	32.77	75	25.84	218.2	1.63	0.62	1473.
100	5.84	32.77	99	25.84	218.1	2.18	1.11	1473.
125	4.55	33.30	124	26.40	164.7	2.65	1.66	1469.
150	4.59	33.72	149	26.73	133.8	3.02	2.17	1470.
175	4.41	33.79	174	26.80	127.2	3.35	2.71	1470.
200	4.19	33.81	199	26.85	123.3	3.66	3.30	1469.
225	4.00	33.83	223	26.88	120.3	3.96	3.96	1469.
250	3.95	33.86	248	26.91	117.4	4.26	4.68	1469.
300	3.91	33.93	298	26.97	112.3	4.83	6.29	1470.
400	3.80	34.03	397	27.06	104.2	5.92	10.15	1471.
500	3.66	34.12	496	27.15	96.8	6.92	14.75	1472.
600	3.50	34.21	595	27.23	89.4	7.85	19.96	1473.
800	3.15	34.30	793	27.34	80.7	9.55	32.02	1475.
1000	2.85	34.37	990	27.42	73.0	11.08	46.05	1477.
1200	2.60	34.42	1188	27.48	68.1	12.49	61.83	1480.


TEMPERATURE, C
0
4
8
12
16
0
300
600
900
1200
1500
PRESSURE, DB
REF. NO. 77 - 9 - 36
50-0.0 N 145-0.0 W
MO.-12 DAY-29 GMT-14.3
31
32
33
34
35
SALINITY, O/OO

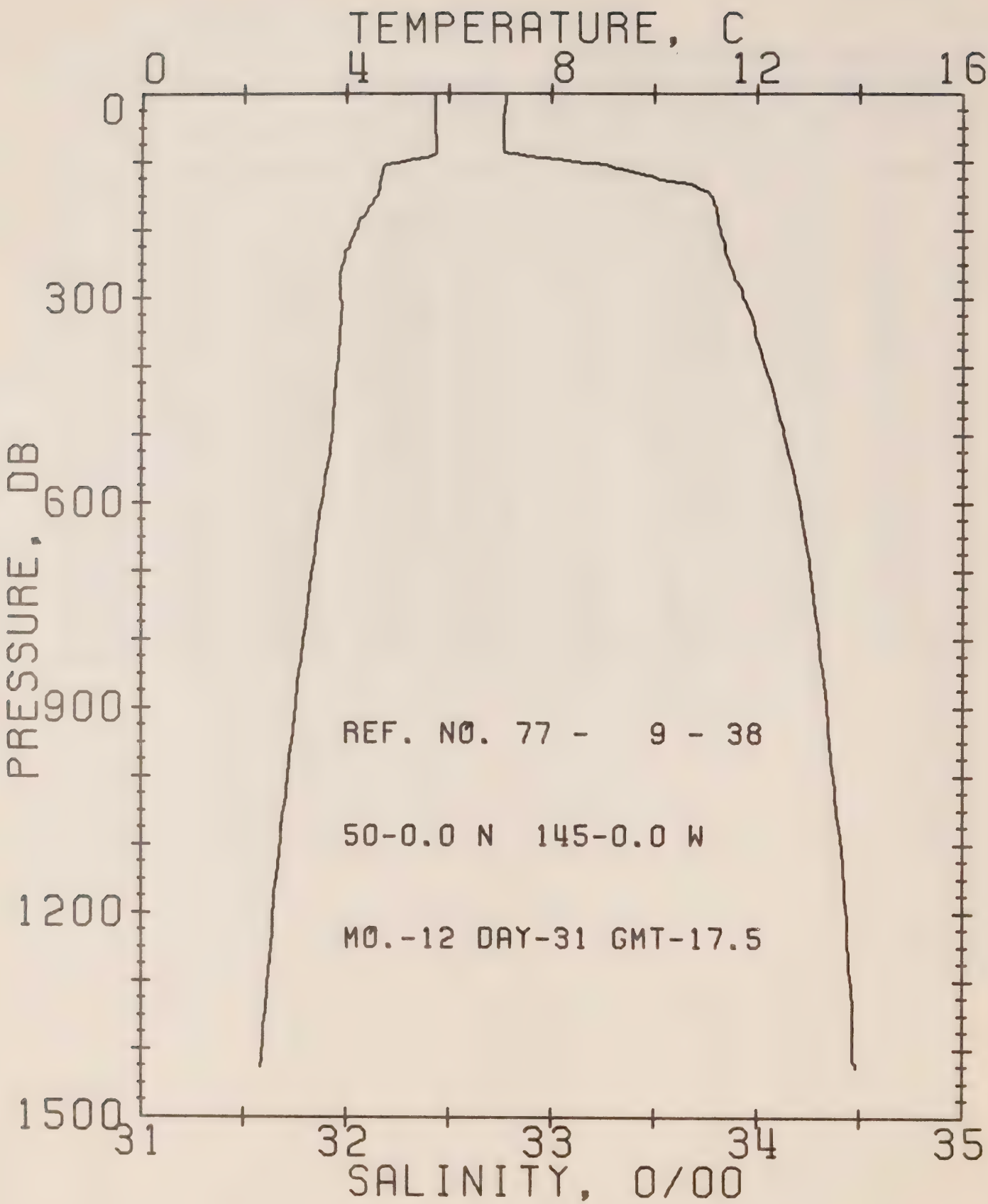
OFFSHORE OCEANOGRAPHY GROUP
REFERENCE NO. 77- 9- 38 DATE 29/12/77 STATION P
POSITION 50- 0.0N, 145- 0.0W GMT 14.3
RESULTS OF STP CAST 170 POINTS TAKEN FROM ANALOG TRACE

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.75	32.84	0	25.90	210.8	0.0	0.0	1471.
10	5.75	32.83	10	25.90	212.0	0.21	0.01	1471.
20	5.75	32.83	20	25.90	212.1	0.42	0.04	1472.
30	5.75	32.82	30	25.89	212.5	0.64	0.10	1472.
50	5.76	32.81	50	25.88	213.8	1.06	0.27	1472.
75	5.77	32.80	75	25.87	215.1	1.60	0.61	1472.
100	5.76	32.84	99	25.90	212.3	2.14	1.09	1473.
125	4.45	33.44	124	26.52	153.1	2.57	1.59	1469.
150	4.55	33.73	149	26.75	132.2	2.93	2.08	1470.
175	4.44	33.81	174	26.82	125.7	3.25	2.62	1470.
200	4.20	33.83	199	26.86	122.1	3.56	3.21	1469.
225	4.04	33.84	223	26.89	119.7	3.86	3.86	1469.
250	3.95	33.86	248	26.91	117.2	4.15	4.58	1469.
300	3.90	33.91	298	26.95	113.6	4.73	6.20	1470.
400	3.83	34.02	397	27.05	105.5	5.83	10.10	1471.
500	3.73	34.11	496	27.13	98.7	6.85	14.77	1473.
600	3.52	34.19	595	27.21	91.2	7.80	20.09	1474.
800	3.16	34.31	793	27.34	80.1	9.50	32.23	1475.
1000	2.84	34.37	990	27.42	72.9	11.04	46.26	1477.
1200	2.59	34.42	1188	27.48	67.8	12.44	61.94	1480.


TEMPERATURE, C
0
4
8
12
16
0
300
600
900
1200
1500
PRESSURE, DB
REF. NO. 77 - 9 - 37
50-0.0 N 145-0.0 W
MO.-12 DAY-30 GMT-17.4
31
32
33
34
35
SALINITY, O/OO

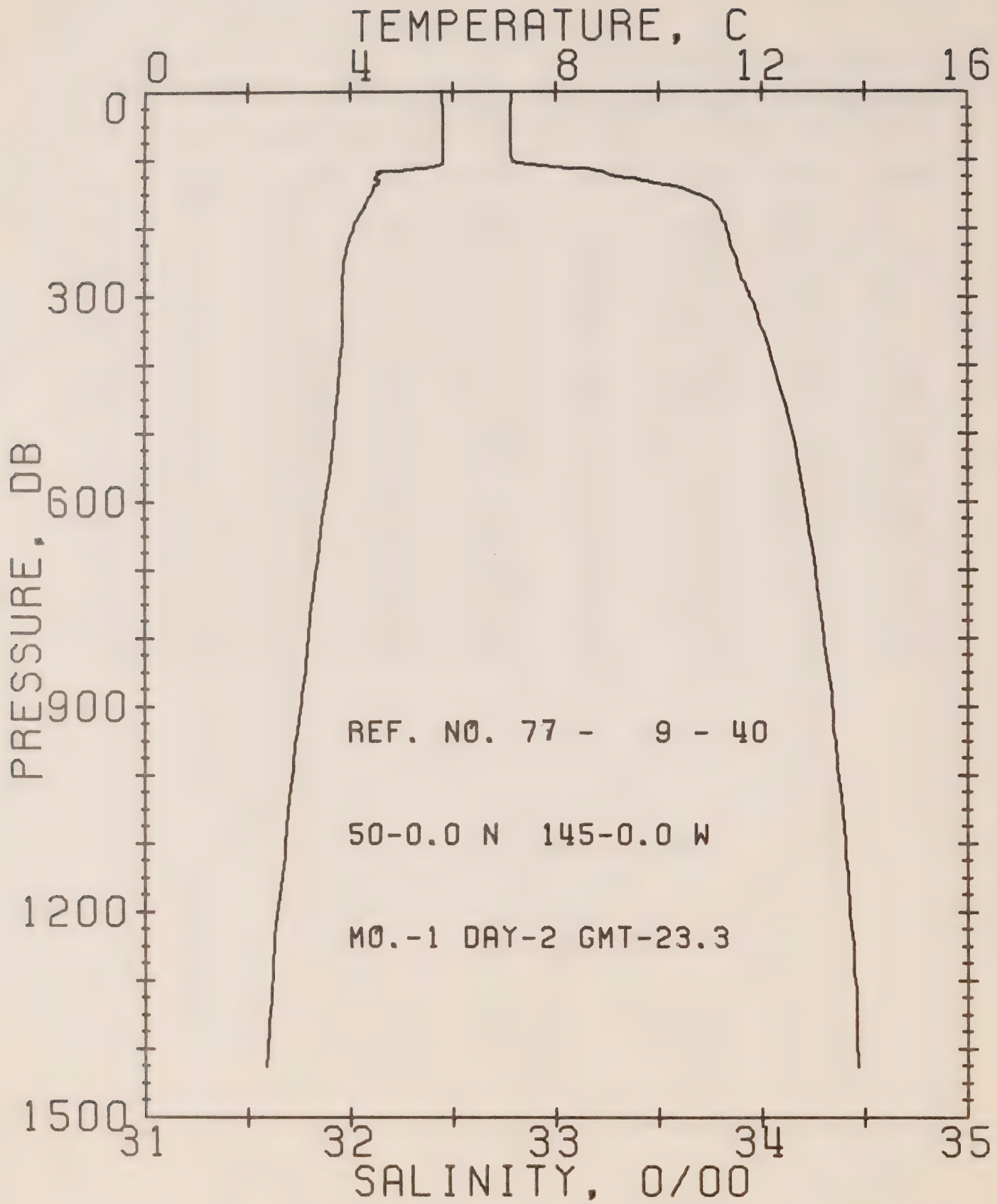
OFFSHORE OCEANOGRAPHY GROUP
REFERENCE NO. 77- 9- 37 DATE 30/12/77 STATION P
POSITION 50- 0.0N, 145- 0.0W GMT 17.4
RESULTS OF STP CAST 164 POINTS TAKEN FROM ANALOG TRACE

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.73	32.79	0	25.87	214.4	0.0	0.0	1471.
10	5.73	32.79	10	25.87	214.7	0.21	0.01	1471.
20	5.73	32.79	20	25.87	214.8	0.43	0.04	1471.
30	5.73	32.79	30	25.87	214.9	0.64	0.10	1472.
50	5.73	32.78	50	25.86	215.9	1.07	0.27	1472.
75	5.75	32.78	75	25.86	216.4	1.62	0.62	1472.
100	5.10	33.16	99	26.23	180.9	2.14	1.09	1471.
125	4.78	33.61	124	26.62	143.9	2.54	1.54	1470.
150	4.70	33.74	149	26.73	133.7	2.89	2.02	1471.
175	4.44	33.80	174	26.81	126.5	3.21	2.56	1470.
200	4.22	33.82	199	26.85	122.9	3.52	3.16	1469.
225	4.04	33.84	223	26.88	119.8	3.82	3.81	1469.
250	3.93	33.86	248	26.91	117.4	4.12	4.53	1469.
300	3.91	33.93	298	26.97	112.3	4.70	6.14	1470.
400	3.81	34.05	397	27.08	103.0	5.76	9.94	1471.
500	3.71	34.14	496	27.15	96.4	6.76	14.49	1473.
600	3.51	34.20	595	27.22	90.2	7.69	19.70	1473.
800	3.13	34.30	793	27.34	80.1	9.38	31.76	1475.
1000	2.86	34.37	990	27.42	73.5	10.91	45.81	1478.
1200	2.58	34.42	1188	27.49	67.6	12.32	61.53	1480.


TEMPERATURE, C
0
4
8
12
16
0
300
600
900
1200
1500
PRESSURE, DB
REF. NO. 77 - 9 - 38
50-0.0 N 145-0.0 W
MO.-12 DAY-31 GMT-17.5
31
32
33
34
35
SALINITY, O/OO

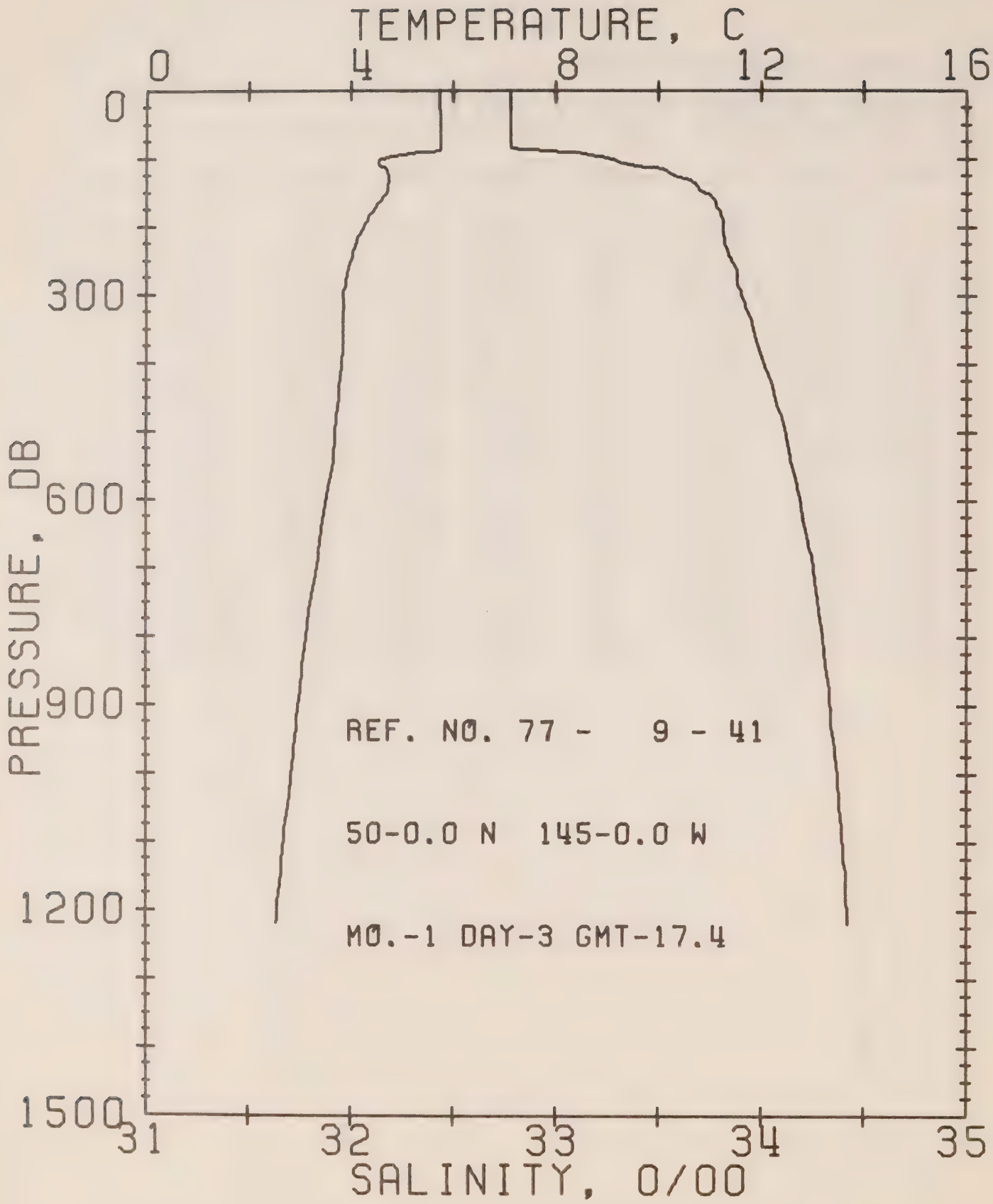
OFFSHORE OCEANOGRAPHY GROUP
REFERENCE NO. 77- 9- 38 DATE 31/12/77 STATION P
POSITION 50- 0.0N, 145- 0.0W GMT 17.5
RESULTS OF STP CAST 164 POINTS TAKEN FROM ANALOG TRACE

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.74	32.78	0	25.86	215.3	0.0	0.0	1471.
10	5.73	32.78	10	25.86	215.5	0.22	0.01	1471.
20	5.73	32.78	20	25.86	215.8	0.43	0.04	1471.
30	5.74	32.77	30	25.85	216.2	0.65	0.10	1472.
50	5.74	32.77	50	25.85	216.7	1.08	0.28	1472.
75	5.75	32.77	75	25.85	217.1	1.62	0.62	1472.
100	5.12	33.10	99	26.18	185.6	2.15	1.09	1471.
125	4.66	33.53	124	26.57	148.6	2.55	1.55	1470.
150	4.60	33.78	149	26.78	129.4	2.89	2.03	1470.
175	4.38	33.80	174	26.82	125.8	3.21	2.56	1470.
200	4.18	33.82	199	26.85	122.4	3.52	3.15	1469.
225	4.04	33.84	223	26.88	119.8	3.82	3.80	1469.
250	3.92	33.86	248	26.91	117.0	4.12	4.52	1469.
300	3.88	33.93	298	26.97	112.0	4.69	6.12	1470.
400	3.82	34.04	397	27.06	104.1	5.77	9.96	1471.
500	3.72	34.13	496	27.15	96.9	6.77	14.55	1473.
600	3.51	34.21	595	27.23	89.5	7.70	19.76	1474.
800	3.16	34.30	793	27.34	80.4	9.40	31.85	1475.
1000	2.86	34.37	990	27.42	73.3	10.93	45.87	1478.
1200	2.57	34.44	1188	27.50	66.4	12.32	61.43	1480.


TEMPERATURE, C
0
4
8
12
16
0
300
600
900
1200
1500
PRESSURE, DB
REF. NO. 77 - 9 - 40
50-0.0 N 145-0.0 W
MO.-1 DAY-2 GMT-23.3
31
32
33
34
35
SALINITY, O/OO

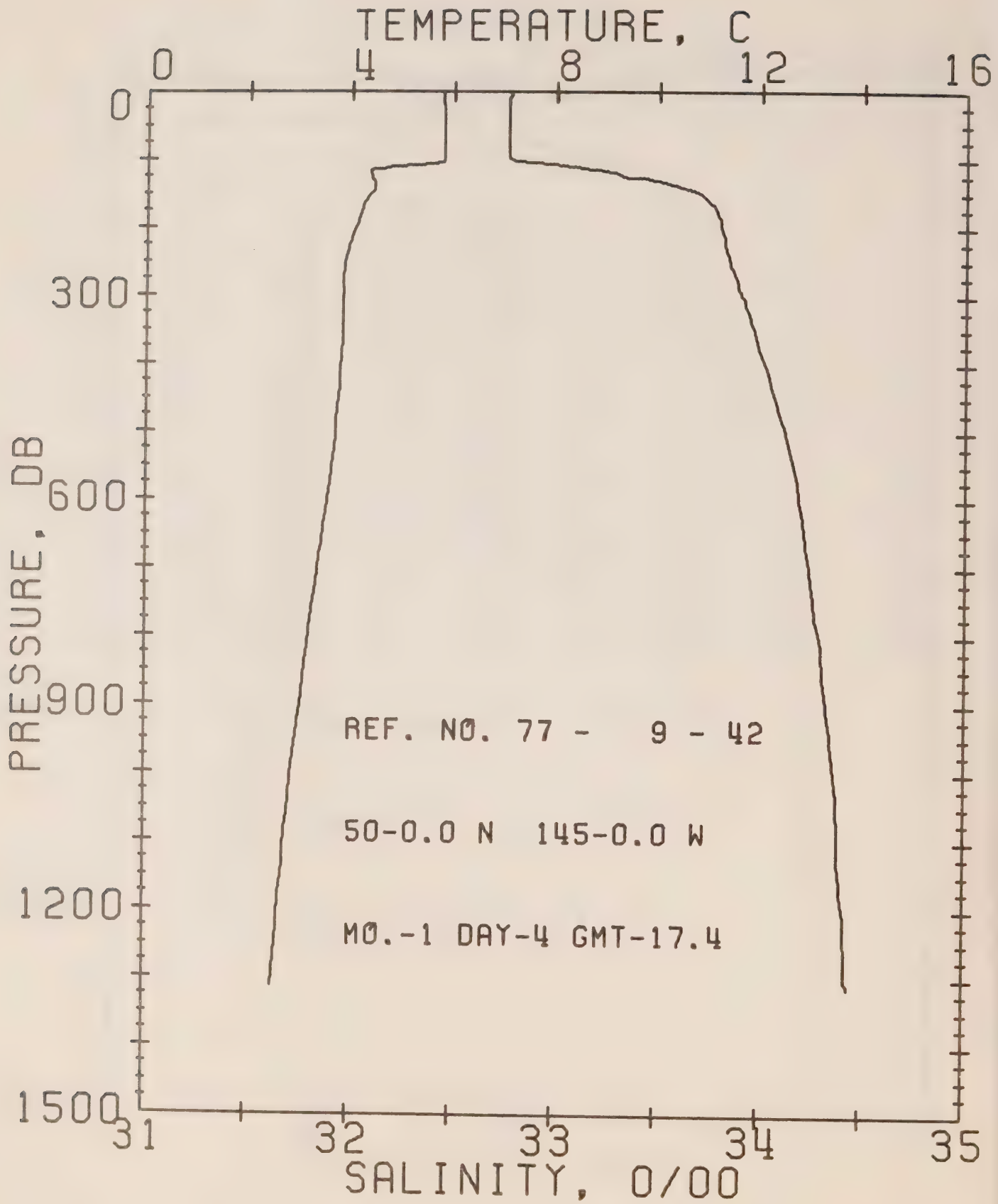
OFFSHORE OCEANOGRAPHY GROUP
REFERENCE NO. 77- 9- 40 DATE 2/ 1/78 STATION P
POSITION 50- 0.0N. 145- 0.0W GMT 23.3
RESULTS OF STP CAST 158 POINTS TAKEN FROM ANALOG TRACE

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.79	32.79	0	25.86	215.1	0.0	0.0	1471.
10	5.79	32.79	10	25.86	215.5	0.22	0.01	1471.
20	5.80	32.78	20	25.85	216.0	0.43	0.04	1472.
30	5.80	32.78	30	25.85	216.4	0.65	0.10	1472.
50	5.80	32.78	50	25.85	216.7	1.08	0.28	1472.
75	5.80	32.78	75	25.85	217.0	1.62	0.62	1473.
100	5.81	32.79	99	25.86	216.6	2.17	1.11	1473.
125	4.47	33.35	124	26.45	160.1	2.64	1.65	1469.
150	4.40	33.69	149	26.73	134.1	3.00	2.15	1469.
175	4.22	33.80	174	26.83	124.1	3.32	2.68	1469.
200	4.05	33.83	199	26.88	120.4	3.63	3.27	1469.
225	3.94	33.85	223	26.90	118.0	3.93	3.91	1469.
250	3.87	33.88	248	26.93	115.3	4.22	4.62	1469.
300	3.85	33.94	298	26.98	110.9	4.78	6.20	1470.
400	3.79	34.06	397	27.08	102.5	5.85	9.99	1471.
500	3.67	34.15	496	27.17	94.9	6.83	14.51	1472.
600	3.49	34.21	595	27.23	89.4	7.76	19.67	1473.
800	3.17	34.30	793	27.34	80.6	9.45	31.73	1475.
1000	2.86	34.37	990	27.42	72.9	10.98	45.76	1478.
1200	2.58	34.43	1188	27.49	67.0	12.38	61.39	1480.


TEMPERATURE, C
0
4
8
12
16
0
300
600
900
1200
1500
PRESSURE, DB
REF. NO. 77 - 9 - 41
50-0.0 N 145-0.0 W
MO.-1 DAY-3 GMT-17.4
31
32
33
34
35
SALINITY, O/OO

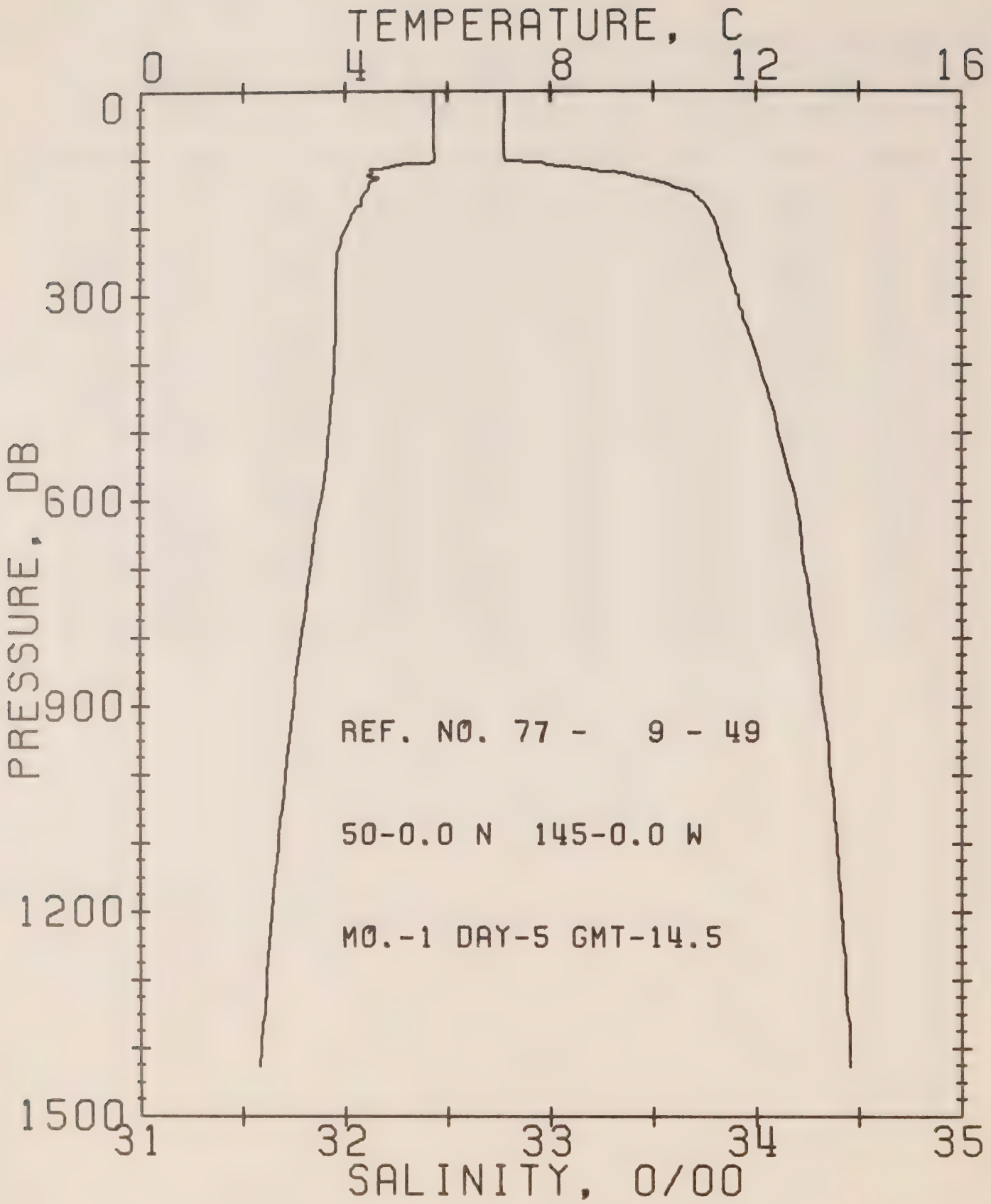
OFFSHORE OCEANOGRAPHY GROUP
REFERENCE NO. 77- 9- 41 DATE 3/ 1/78 STATION P
POSITION 50- 0.0N, 145- 0.0W GMT 17.4
RESULTS OF STP CAST 140 POINTS TAKEN FROM ANALOG TRACE

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. FN	SOUND
0	5.77	32.79	0	25.86	214.8	0.0	0.0	1471.
10	5.77	32.79	10	25.86	215.1	0.21	0.01	1471.
20	5.77	32.79	20	25.86	215.2	0.43	0.04	1472.
30	5.78	32.79	30	25.86	215.4	0.65	0.10	1472.
50	5.78	32.79	50	25.86	215.6	1.08	0.27	1472.
75	5.78	32.79	75	25.86	215.9	1.62	0.62	1472.
100	4.65	33.28	99	26.38	167.0	2.11	1.06	1469.
125	4.78	33.60	124	26.62	144.6	2.50	1.50	1470.
150	4.71	33.74	149	26.73	133.6	2.84	1.98	1471.
175	4.46	33.81	174	26.81	126.1	3.17	2.52	1470.
200	4.26	33.82	199	26.85	123.3	3.48	3.11	1470.
225	4.10	33.83	223	26.87	121.2	3.78	3.78	1469.
250	4.01	33.86	248	26.90	118.2	4.08	4.50	1469.
300	3.88	33.91	298	26.96	113.4	4.66	6.11	1470.
400	3.84	34.02	397	27.05	105.9	5.76	10.02	1471.
500	3.71	34.13	496	27.14	97.3	6.77	14.66	1473.
600	3.53	34.19	595	27.22	90.9	7.71	19.94	1474.
800	3.14	34.31	793	27.35	79.6	9.41	32.03	1475.
1000	2.86	34.38	990	27.43	72.7	10.94	45.98	1478.
1200	2.59	34.43	1188	27.49	67.1	12.33	61.62	1480.


TEMPERATURE, C
0
4
8
12
16
0
300
600
900
1200
1500
PRESSURE, DB
REF. NO. 77 - 9 - 42
50-0.0 N 145-0.0 W
MO.-1 DAY-4 GMT-17.4
31
32
33
34
35
SALINITY, O/OO

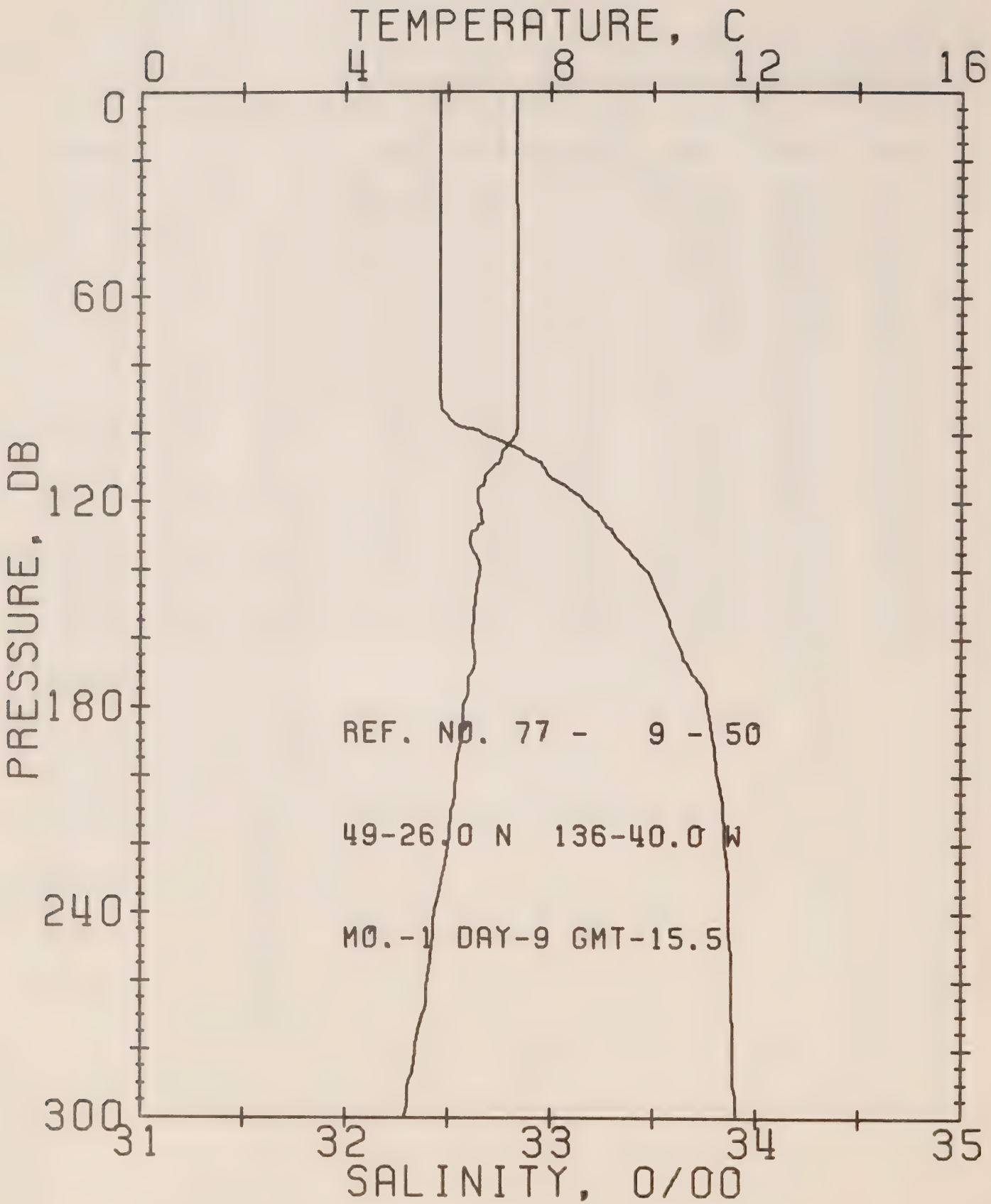
OFFSHORE OCEANOGRAPHY GROUP
REFERENCE NO. 77- 9- 42 DATE 4/ 1/78 STATION P
POSITION 50- 0.0N, 145- 0.0W GMT 17.4
RESULTS OF STP CAST 156 POINTS TAKEN FROM ANALOG TRACE

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.78	32.77	0	25.84	216.4	0.0	0.0	1471.
10	5.79	32.77	10	25.84	216.9	0.22	0.01	1471.
20	5.80	32.77	20	25.84	217.0	0.43	0.04	1472.
30	5.80	32.77	30	25.84	217.2	0.65	0.10	1472.
50	5.80	32.77	50	25.84	217.4	1.08	0.28	1472.
75	5.80	32.77	75	25.84	217.7	1.63	0.62	1473.
100	5.80	32.78	99	25.85	216.9	2.17	1.11	1473.
125	4.39	33.35	124	26.46	159.2	2.63	1.63	1468.
150	4.39	33.70	149	26.74	132.9	2.99	2.13	1469.
175	4.19	33.78	174	26.82	125.5	3.31	2.66	1469.
200	4.06	33.80	199	26.85	122.5	3.62	3.25	1469.
225	3.96	33.82	223	26.88	120.4	3.92	3.91	1469.
250	3.88	33.85	248	26.91	117.8	4.22	4.63	1469.
300	3.85	33.91	298	26.96	113.2	4.80	6.25	1470.
400	3.80	34.02	397	27.05	105.2	5.89	10.14	1471.
500	3.70	34.12	496	27.14	97.4	6.91	14.79	1473.
600	3.55	34.19	595	27.21	91.5	7.85	20.06	1474.
800	3.18	34.29	793	27.33	81.6	9.58	32.39	1476.
1000	2.87	34.37	990	27.42	73.7	11.13	46.60	1478.
1200	2.62	34.41	1188	27.47	68.7	12.56	62.57	1480.


TEMPERATURE, C
0
4
8
12
16
0
300
600
900
1200
1500
PRESSURE, DB
REF. NO. 77 - 9 - 49
50-0.0 N 145-0.0 W
MO.-1 DAY-5 GMT-14.5
31
32
33
34
35
SALINITY, O/OO

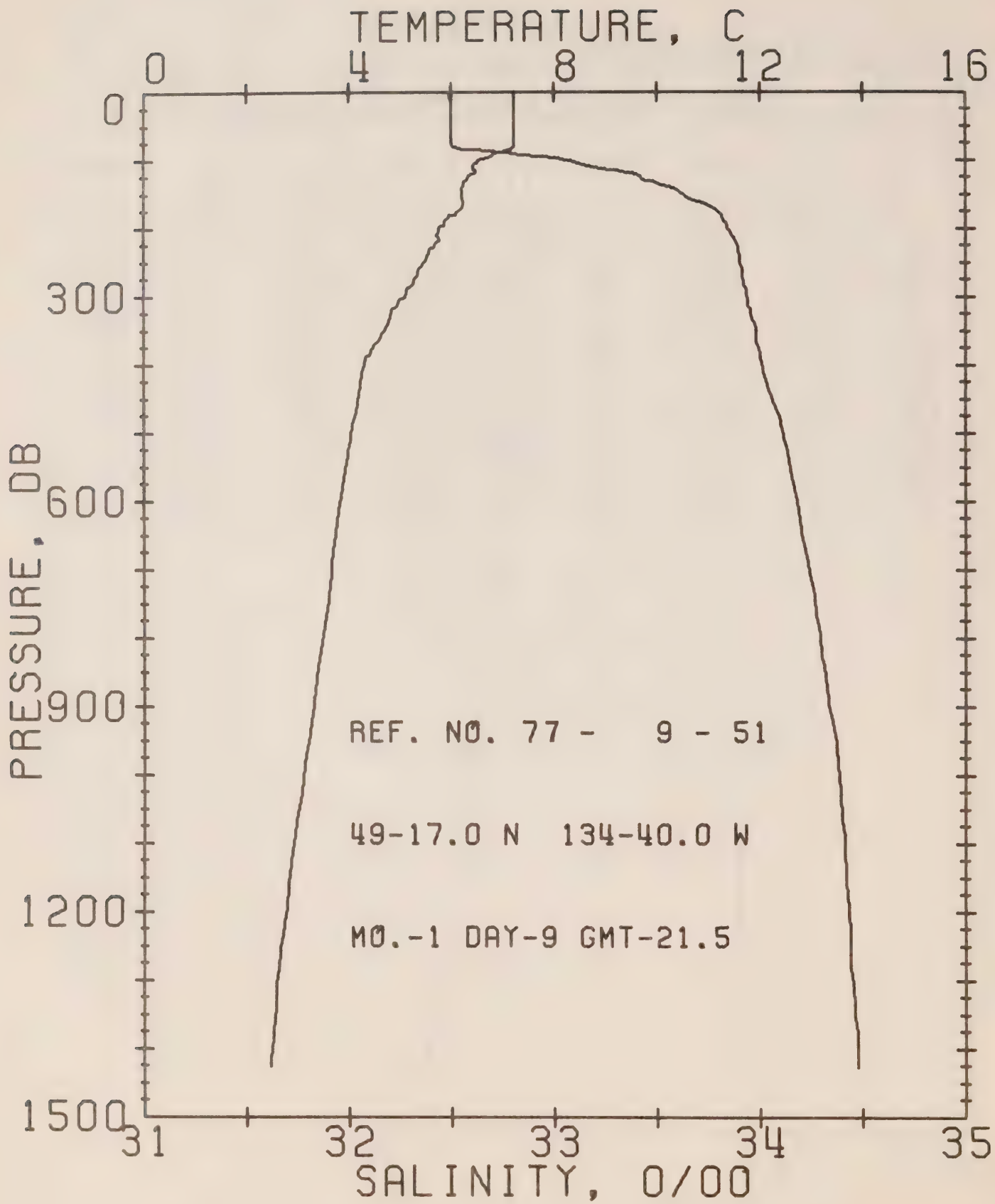
OFFSHORE OCEANOGRAPHY GROUP
REFERENCE NO. 77- 9- 49 DATE 5/ 1/78 STATION P
POSITION 50- 0.0N, 145- 0.0W GMT 14.5
RESULTS OF STP CAST 168 POINTS TAKEN FROM ANALOG TRACE

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.77	32.79	0	25.86	214.8	0.0	0.0	1471.
10	5.77	32.79	10	25.86	215.1	0.21	0.01	1471.
20	5.77	32.79	20	25.86	215.2	0.43	0.04	1472.
30	5.77	32.79	30	25.86	215.3	0.65	0.10	1472.
50	5.77	32.78	50	25.86	216.1	1.08	0.27	1472.
75	5.77	32.78	75	25.85	216.6	1.62	0.62	1472.
100	5.78	32.78	99	25.86	216.7	2.16	1.10	1473.
125	4.59	33.43	124	26.50	155.3	2.62	1.62	1469.
150	4.39	33.70	149	26.74	132.9	2.98	2.13	1469.
175	4.20	33.78	174	26.82	125.5	3.30	2.66	1469.
200	4.04	33.82	199	26.87	121.1	3.61	3.25	1469.
225	3.91	33.84	223	26.90	118.4	3.91	3.90	1469.
250	3.87	33.87	248	26.92	116.4	4.20	4.61	1469.
300	3.84	33.92	298	26.97	112.3	4.77	6.21	1470.
400	3.81	34.02	397	27.05	105.2	5.86	10.10	1471.
500	3.70	34.11	496	27.14	98.0	6.88	14.75	1473.
600	3.54	34.20	595	27.22	90.6	7.82	20.04	1474.
800	3.15	34.30	793	27.33	80.7	9.54	32.25	1475.
1000	2.85	34.37	990	27.42	73.4	11.08	46.33	1478.
1200	2.59	34.42	1188	27.48	67.8	12.48	62.05	1480.


TEMPERATURE, C
0
4
8
12
16
0
60
120
180
240
300
PRESSURE, DB
REF. NO. 77 - 9 - 50
49-26.0 N 136-40.0 W
MO.-1 DAY-9 GMT-15.5
31
32
33
34
35
SALINITY, O/OO

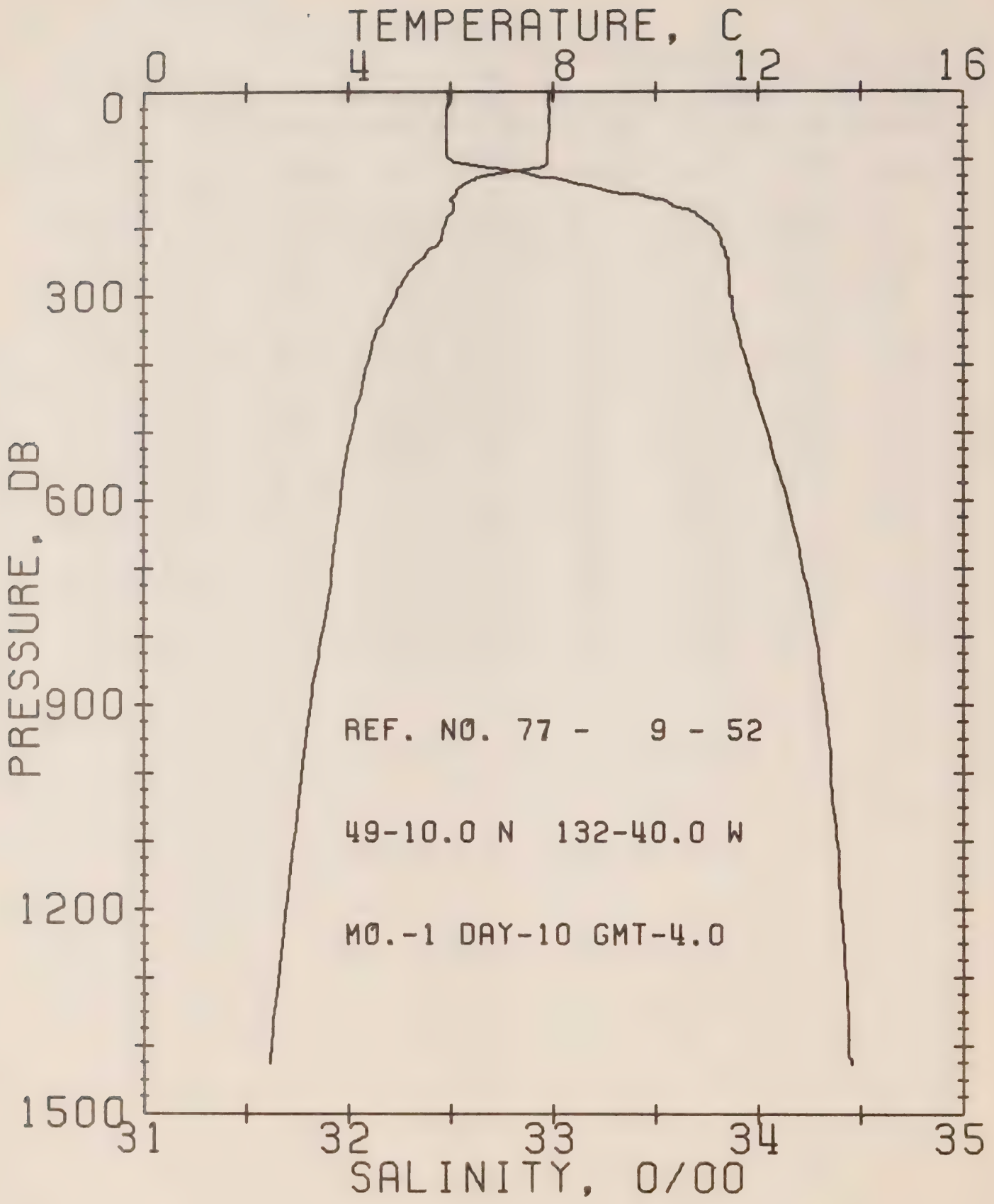
OFFSHORE OCEANOGRAPHY GROUP
REFERENCE NO. 77- 9- 50 DATE 9/ 1/78 STATION 9
POSITION 49-26.0N, 136-40.0W GMT 15.5
RESULTS OF STP CAST 98 POINTS TAKEN FROM ANALOG TRACE

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	7.34	32.46	0	25.40	258.8	0.0	0.0	1477.
10	7.34	32.46	10	25.40	259.1	0.26	0.01	1477.
20	7.34	32.46	20	25.40	259.3	0.52	0.05	1477.
30	7.34	32.46	30	25.40	259.4	0.78	0.12	1478.
50	7.35	32.46	50	25.40	259.8	1.30	0.33	1478.
75	7.36	32.46	75	25.40	260.3	1.95	0.74	1478.
100	7.34	32.67	99	25.56	244.7	2.59	1.32	1479.
125	6.67	33.25	124	26.11	193.0	3.13	1.93	1477.
150	6.52	33.54	149	26.36	169.6	3.57	2.56	1478.
175	6.39	33.75	174	26.54	152.9	3.98	3.23	1478.
200	6.15	33.81	199	26.62	145.4	4.35	3.94	1477.
225	5.94	33.86	223	26.68	139.7	4.71	4.71	1477.
250	5.68	33.88	248	26.73	135.6	5.05	5.54	1476.
300	5.15	33.90	298	26.81	128.1	5.71	7.39	1475.


TEMPERATURE, C
0
4
8
12
16
0
300
600
900
1200
1500
PRESSURE, DB
REF. NO. 77 - 9 - 51
49-17.0 N 134-40.0 W
MO.-1 DAY-9 GMT-21.5
31
32
33
34
35
SALINITY, O/OO

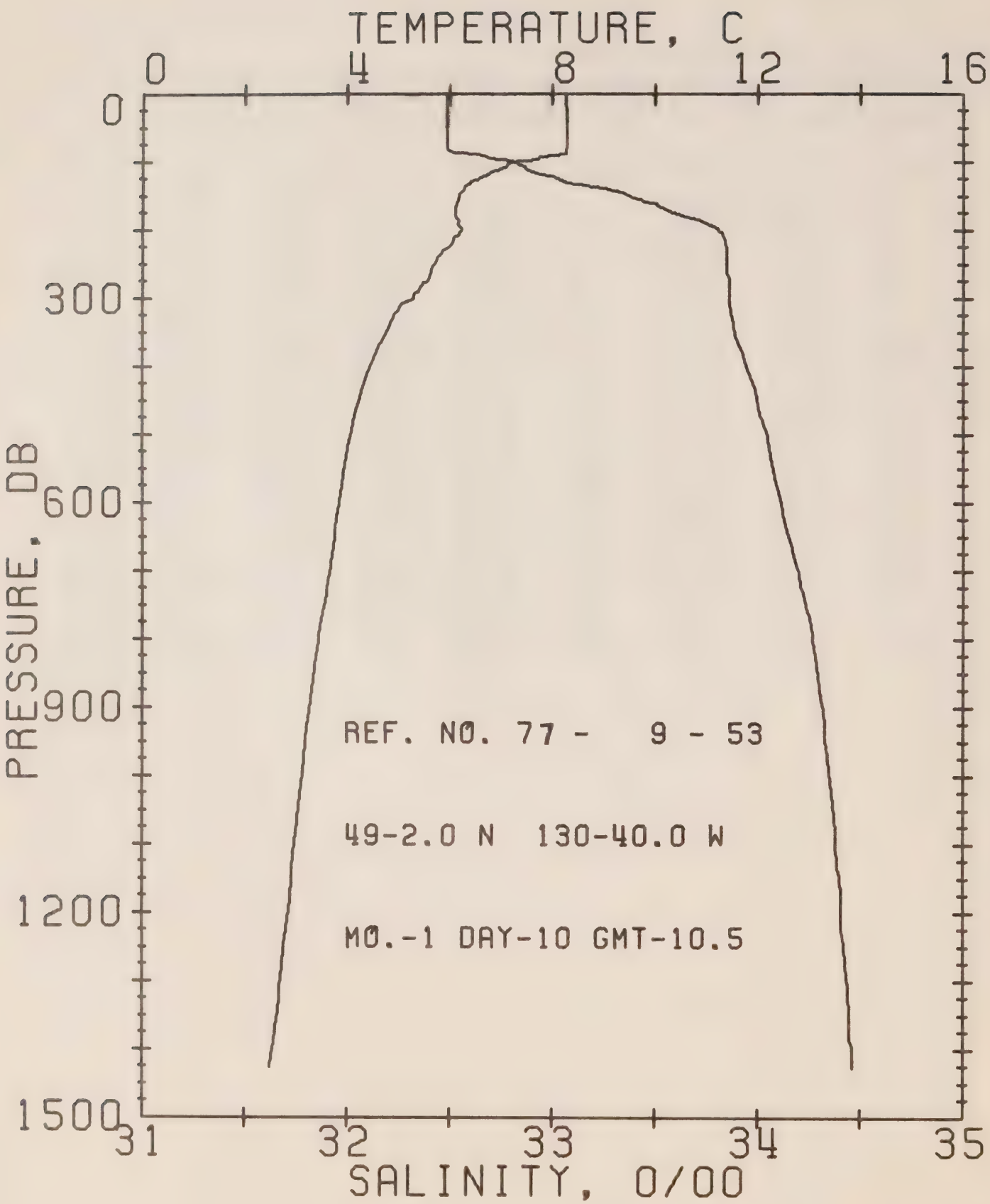
OFFSHORE OCEANOGRAPHY GROUP
REFERENCE NO. 77- 9- 51 DATE 9/ 1/78 STATION 8
POSITION 49-17.0N, 134-40.0W GMT 21.5
RESULTS OF STP CAST 187 POINTS TAKEN FROM ANALOG TRACE

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	7.18	32.48	0	25.44	255.1	0.0	0.0	1476.
10	7.18	32.48	10	25.44	255.4	0.26	0.01	1477.
20	7.18	32.49	20	25.44	254.8	0.51	0.05	1477.
30	7.17	32.49	30	25.45	254.9	0.77	0.12	1477.
50	7.17	32.49	50	25.45	255.2	1.28	0.32	1477.
75	7.17	32.49	75	25.45	255.5	1.91	0.73	1478.
100	6.46	33.05	99	25.98	205.1	2.50	1.25	1476.
125	6.23	33.41	124	26.29	175.6	2.98	1.80	1476.
150	6.16	33.61	149	26.46	159.8	3.40	2.38	1476.
175	6.05	33.79	174	26.62	145.6	3.78	3.02	1477.
200	5.70	33.83	199	26.69	138.7	4.13	3.69	1476.
225	5.59	33.88	223	26.74	133.9	4.48	4.43	1476.
250	5.39	33.89	248	26.78	131.2	4.81	5.24	1475.
300	5.04	33.92	298	26.84	125.4	5.45	7.03	1475.
400	4.23	34.00	397	26.99	111.5	6.62	11.22	1473.
500	3.98	34.10	496	27.10	102.2	7.69	16.11	1474.
600	3.75	34.17	595	27.17	95.3	8.68	21.64	1475.
800	3.43	34.28	793	27.30	84.8	10.48	34.47	1477.
1000	3.04	34.37	990	27.41	75.1	12.08	49.10	1478.
1200	2.70	34.42	1188	27.47	69.1	13.52	65.20	1480.


TEMPERATURE, C
0
4
8
12
16
0
300
600
900
1200
1500
PRESSURE, DB
REF. NO. 77 - 9 - 52
49-10.0 N 132-40.0 W
MO.-1 DAY-10 GMT-4.0
31
32
33
34
35
SALINITY, O/OO

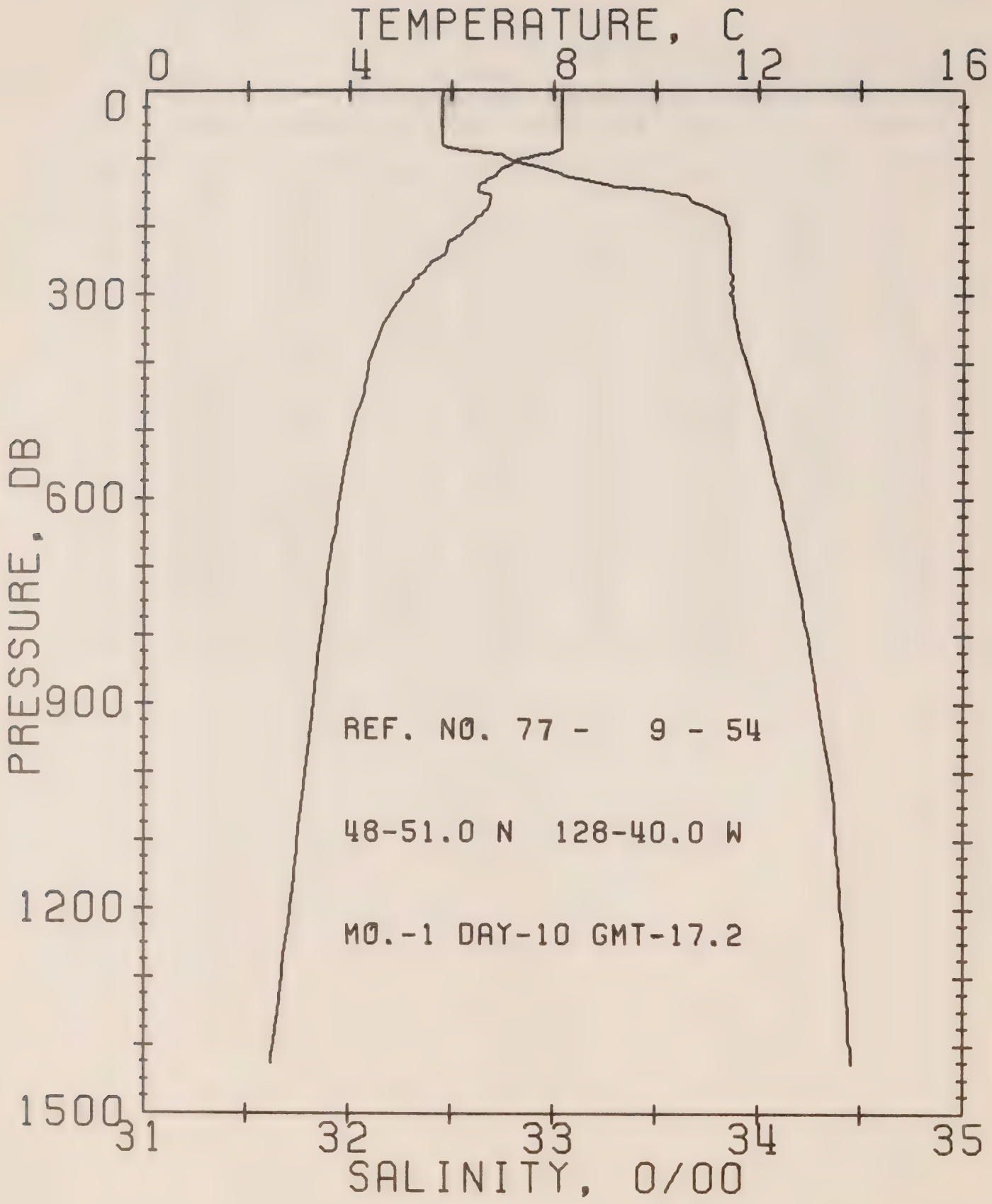
OFFSHORE OCEANOGRAPHY GROUP
REFERENCE NO. 77- 9- 52 DATE 10/ 1/78 STATION 7
POSITION 49-10.0N, 132-40.0W GMT 4.0
RESULTS OF STP CAST 185 POINTS TAKEN FROM ANALOG TRACE

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	7.96	32.49	0	25.34	264.9	0.0	0.0	1480.
10	7.96	32.50	10	25.34	264.4	0.26	0.01	1480.
20	7.96	32.50	20	25.34	264.8	0.53	0.05	1480.
30	7.97	32.49	30	25.33	265.6	0.79	0.12	1480.
50	7.97	32.49	50	25.33	265.9	1.33	0.34	1480.
75	7.93	32.49	75	25.34	265.7	1.99	0.76	1481.
100	7.93	32.51	99	25.35	264.9	2.65	1.35	1481.
125	6.53	32.95	124	25.89	213.7	3.26	2.05	1477.
150	6.14	33.35	149	26.26	179.3	3.75	2.73	1476.
175	6.06	33.68	174	26.52	154.3	4.16	3.41	1476.
200	5.88	33.79	199	26.64	143.9	4.53	4.12	1476.
225	5.76	33.83	223	26.68	139.7	4.89	4.88	1476.
250	5.40	33.86	248	26.75	133.5	5.23	5.71	1475.
300	4.95	33.87	298	26.81	128.1	5.83	7.53	1474.
400	4.38	33.95	397	26.94	116.4	7.10	11.87	1474.
500	4.07	34.05	496	27.05	106.7	8.21	16.99	1474.
600	3.86	34.15	595	27.15	97.9	9.24	22.71	1475.
800	3.49	34.29	793	27.29	85.1	11.06	35.71	1477.
1000	3.10	34.36	991	27.39	76.7	12.67	50.39	1479.
1200	2.80	34.41	1188	27.46	70.7	14.14	66.86	1481.


TEMPERATURE, C
0
4
8
12
16
0
300
600
900
1200
1500
PRESSURE, DB
REF. NO. 77 - 9 - 53
49-2.0 N 130-40.0 W
MO.-1 DAY-10 GMT-10.5
31
32
33
34
35
SALINITY, O/OO

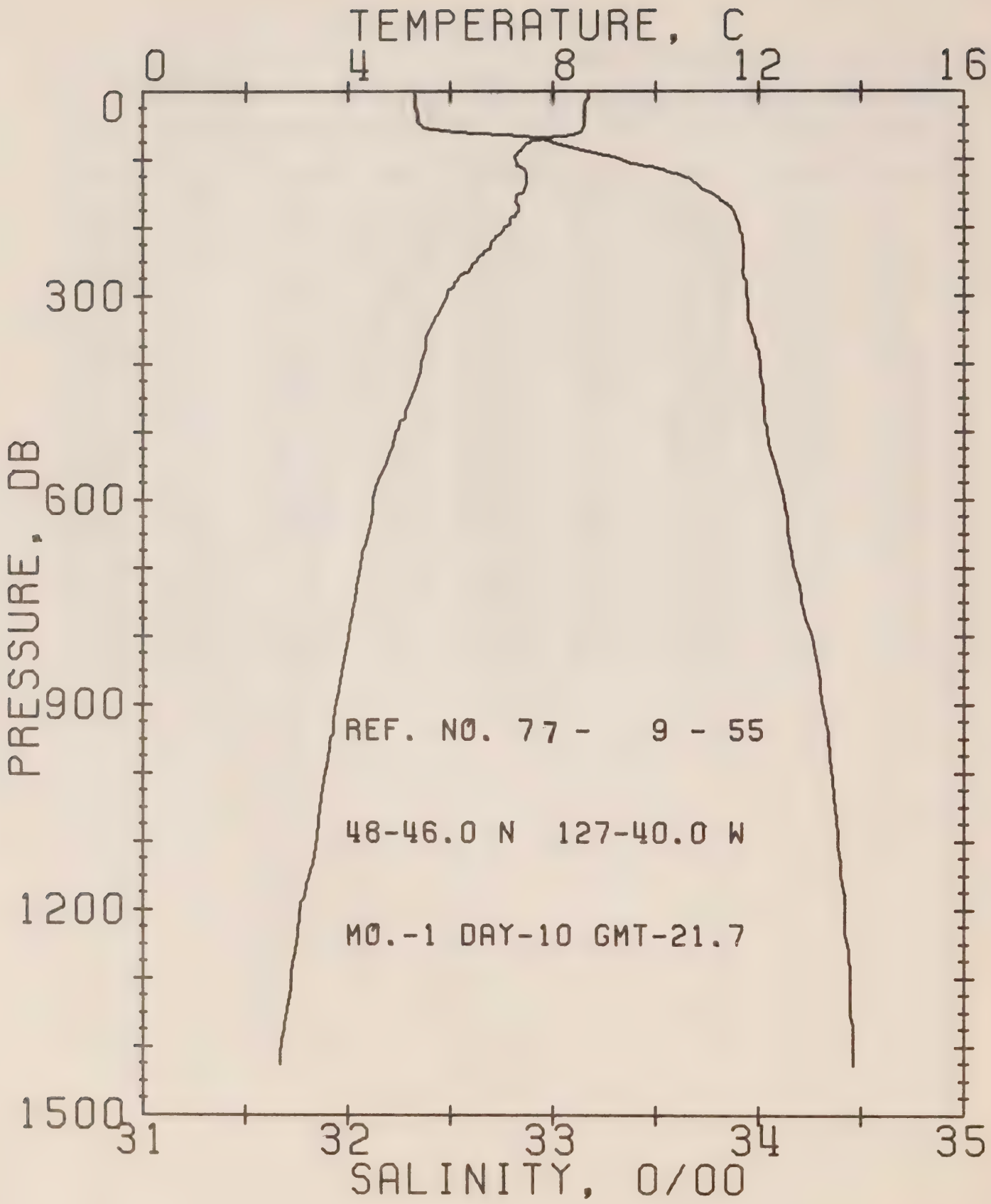
OFFSHORE OCEANOGRAPHY GROUP
REFERENCE NO. 77- 9- 53 DATE 10/ 1/78 STATION 6
POSITION 49- 2.0N, 130-40.0W GMT 10.5
RESULTS OF STP CAST 182 POINTS TAKEN FROM ANALOG TRACE

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	8.27	32.49	0	25.29	269.1	0.0	0.0	1481.
10	8.27	32.49	10	25.29	269.5	0.27	0.01	1481.
20	8.28	32.49	20	25.29	269.7	0.54	0.05	1481.
30	8.28	32.49	30	25.29	270.0	0.81	0.12	1481.
50	8.28	32.49	50	25.29	270.3	1.35	0.34	1482.
75	8.28	32.49	75	25.29	270.6	2.03	0.77	1482.
100	7.31	32.81	99	25.68	233.5	2.67	1.35	1479.
125	6.54	33.04	124	25.96	207.1	3.23	1.98	1477.
150	6.18	33.37	149	26.27	177.9	3.70	2.65	1476.
175	6.11	33.60	174	26.46	160.8	4.13	3.35	1477.
200	6.22	33.81	199	26.61	146.6	4.51	4.08	1478.
225	5.94	33.85	223	26.68	140.4	4.87	4.85	1477.
250	5.68	33.85	248	26.71	137.6	5.21	5.69	1476.
300	5.27	33.86	298	26.77	132.5	5.89	7.59	1475.
400	4.43	33.94	397	26.92	117.9	7.13	12.02	1474.
500	4.05	34.05	496	27.05	106.7	8.25	17.14	1474.
600	3.83	34.11	595	27.12	100.4	9.29	22.96	1475.
800	3.43	34.27	793	27.29	85.7	11.15	36.19	1477.
1000	3.10	34.35	991	27.38	77.4	12.78	51.07	1479.
1200	2.84	34.41	1188	27.45	71.4	14.26	67.67	1481.


TEMPERATURE, C
0
4
8
12
16
0
300
600
900
1200
1500
PRESSURE, DB
REF. NO. 77 - 9 - 54
48-51.0 N 128-40.0 W
MO.-1 DAY-10 GMT-17.2
31
32
33
34
35
SALINITY, O/OO

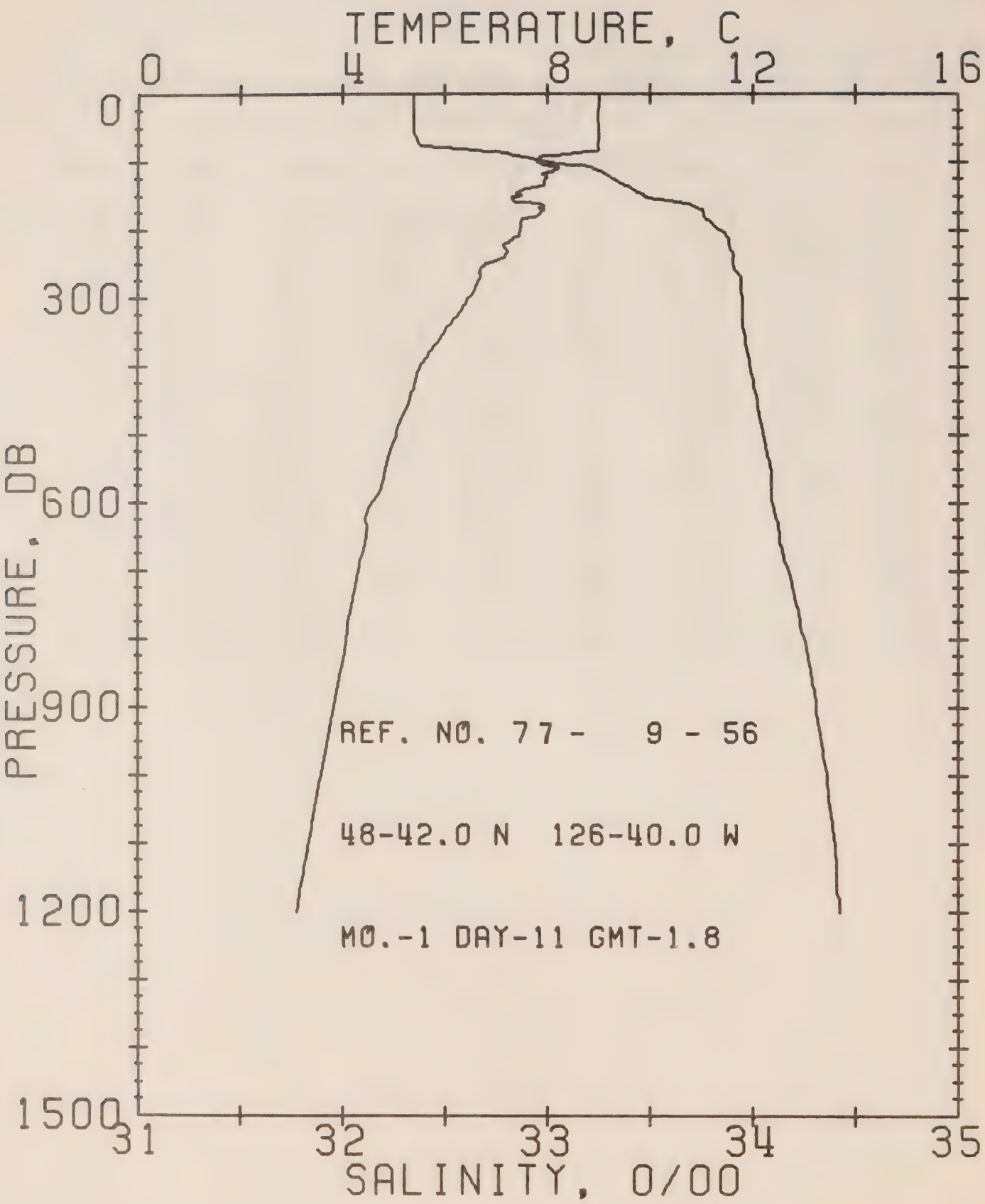
OFFSHORE OCEANOGRAPHY GROUP
REFERENCE NO. 77- 9- 54 DATE 10/ 1/78 STATION 5
POSITION 48-51.0N, 128-40.0W GMT 17.2
RESULTS OF STP CAST 181 POINTS TAKEN FROM ANALOG TRACE

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	8.21	32.47	0	25.28	269.7	0.0	0.0	1480.
10	8.19	32.46	10	25.28	270.2	0.27	0.01	1481.
20	8.19	32.46	20	25.28	270.7	0.54	0.06	1481.
30	8.19	32.46	30	25.28	270.9	0.81	0.12	1481.
50	8.19	32.46	50	25.28	271.2	1.35	0.35	1481.
75	8.19	32.46	75	25.28	271.6	2.03	0.78	1482.
100	7.46	32.78	99	25.63	238.1	2.68	1.36	1480.
125	6.88	33.05	124	25.92	210.7	3.24	2.00	1478.
150	6.57	33.54	149	26.36	170.1	3.72	2.67	1478.
175	6.70	33.78	174	26.52	154.6	4.13	3.34	1479.
200	6.36	33.86	199	26.63	144.8	4.50	4.05	1478.
225	5.95	33.87	223	26.69	139.2	4.85	4.82	1477.
250	5.69	33.87	248	26.72	136.2	5.20	5.65	1476.
300	5.06	33.87	298	26.80	129.3	5.86	7.51	1475.
400	4.40	33.95	397	26.93	116.9	7.09	11.88	1474.
500	4.07	34.04	496	27.04	107.8	8.21	17.03	1474.
600	3.83	34.11	595	27.12	100.1	9.25	22.85	1475.
800	3.47	34.25	793	27.26	87.8	11.13	36.18	1477.
1000	3.17	34.36	991	27.38	77.4	12.78	51.33	1479.
1200	2.88	34.41	1188	27.45	71.7	14.27	68.00	1481.


TEMPERATURE, C
0
4
8
12
16
0
300
600
900
1200
1500
PRESSURE, DB
REF. NO. 77 - 9 - 55
48-46.0 N 127-40.0 W
MO.-1 DAY-10 GMT-21.7
31
32
33
34
35
SALINITY, O/OO

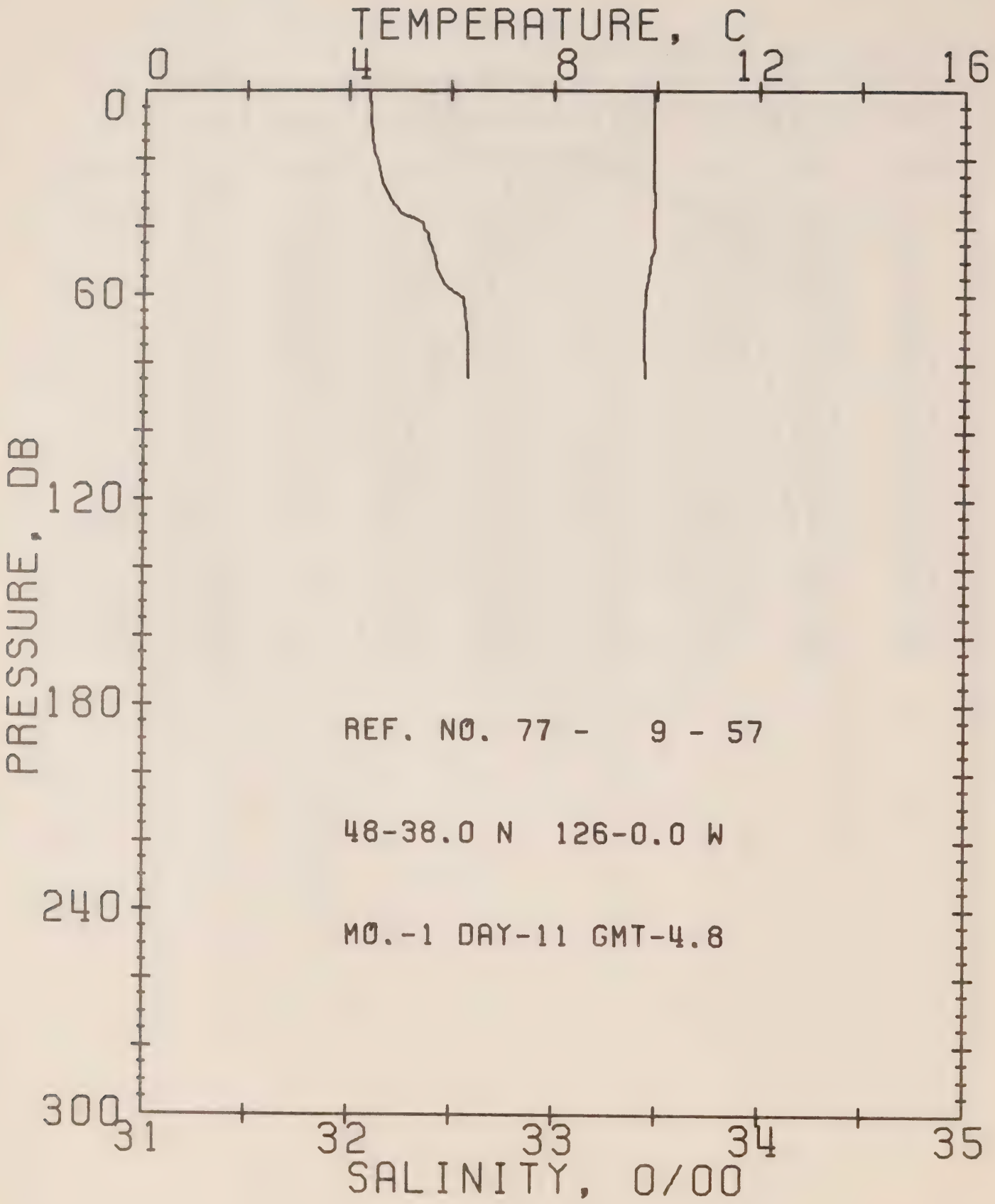
OFFSHORE OCEANOGRAPHY GROUP
REFERENCE NO. 77- 9- 55 DATE 10/ 1/78 STATION 4
POSITION 48-46.0N, 127-40.0W GMT 21.7
RESULTS OF STP CAST 213 POINTS TAKEN FROM ANALOG TRACE

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	8.69	32.32	0	25.09	287.7	0.0	0.0	1482.
10	8.70	32.33	10	25.10	287.6	0.29	0.01	1482.
20	8.62	32.33	20	25.11	286.5	0.57	0.06	1482.
30	8.61	32.34	30	25.12	286.0	0.86	0.13	1482.
50	8.60	32.36	50	25.14	284.7	1.43	0.36	1483.
75	7.54	33.00	75	25.79	222.7	2.07	0.77	1480.
100	7.30	33.33	99	26.09	194.8	2.60	1.23	1480.
125	7.50	33.64	124	26.31	174.9	3.06	1.76	1481.
150	7.39	33.77	149	26.42	163.9	3.48	2.36	1481.
175	7.34	33.88	174	26.51	155.9	3.88	3.01	1482.
200	7.05	33.91	199	26.58	150.0	4.26	3.75	1481.
225	6.78	33.93	223	26.63	145.6	4.63	4.55	1480.
250	6.49	33.93	248	26.67	141.9	4.99	5.42	1480.
300	5.92	33.94	298	26.75	134.4	5.68	7.35	1478.
400	5.43	34.01	397	26.86	124.5	6.97	11.95	1478.
500	4.94	34.04	496	26.95	117.3	8.19	17.51	1478.
600	4.49	34.12	595	27.06	107.0	9.31	23.79	1478.
800	3.99	34.26	793	27.22	92.8	11.32	38.12	1479.
1000	3.55	34.36	991	27.35	82.0	13.06	54.04	1480.
1200	3.06	34.42	1188	27.44	73.1	14.62	71.47	1482.


TEMPERATURE, C
0
4
8
12
16
0
300
600
900
1200
1500
PRESSURE, DB
REF. NO. 77- 9 - 56
48-42.0 N 126-40.0 W
MO.-1 DAY-11 GMT-1.8
31
32
33
34
35
SALINITY, O/OO

OFFSHORE OCEANOGRAPHY GROUP
REFERENCE NO. 77- 9- 56 DATE 11/ 1/78 STATION 3
POSITION 48-42.0N, 126-40.0W GMT 1.3
RESULTS OF STP CAST 198 POINTS TAKEN FROM ANALOG TRACE

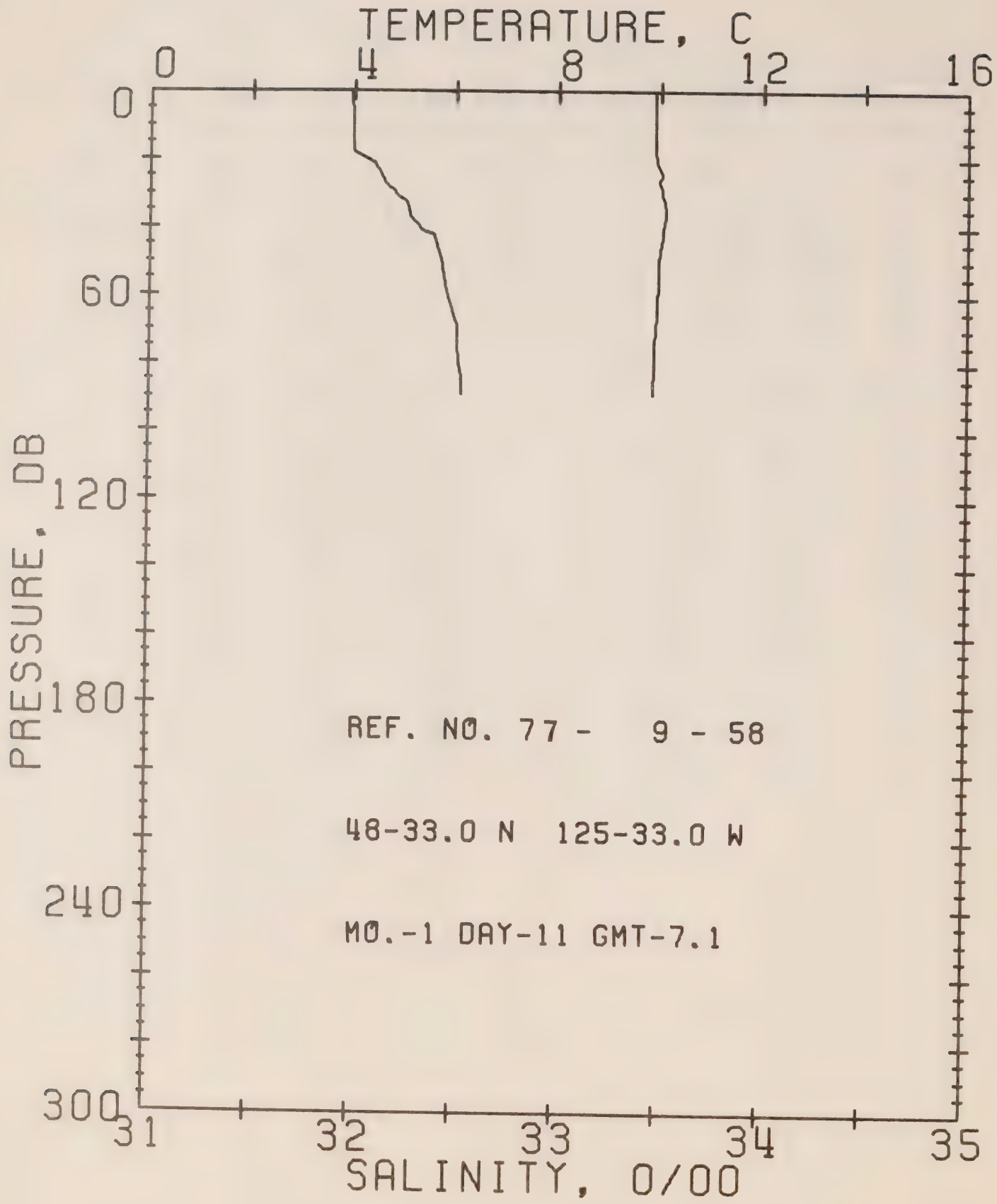
PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	9.00	32.35	0	25.07	290.1	0.0	0.0	1483.
10	9.00	32.35	10	25.07	290.5	0.29	0.01	1483.
20	9.00	32.35	20	25.07	290.5	0.58	0.06	1484.
30	8.99	32.35	30	25.07	290.6	0.87	0.13	1484.
50	9.00	32.35	50	25.07	291.1	1.45	0.37	1484.
75	8.99	32.38	75	25.09	289.4	2.18	0.83	1484.
100	7.79	33.00	99	25.76	226.3	2.82	1.40	1481.
125	7.94	33.32	124	25.99	204.5	3.35	2.01	1483.
150	7.40	33.47	149	26.18	186.7	3.84	2.69	1481.
175	7.85	33.76	174	26.35	171.9	4.28	3.42	1484.
200	7.45	33.84	199	26.47	160.5	4.69	4.21	1483.
225	7.16	33.89	223	26.55	153.3	5.08	5.06	1482.
250	6.77	33.90	248	26.61	147.7	5.46	5.98	1481.
300	6.44	33.95	298	26.69	140.4	6.13	7.99	1480.
400	5.50	33.98	397	26.84	127.2	7.52	12.77	1479.
500	5.03	34.05	496	26.94	117.7	8.75	18.38	1479.
600	4.57	34.09	595	27.03	110.1	9.89	24.75	1478.
800	4.06	34.25	793	27.21	94.5	11.93	39.26	1479.
1000	3.56	34.36	991	27.35	81.9	13.69	55.37	1481.
1200	3.10	34.42	1188	27.44	73.6	15.24	72.70	1482.


TEMPERATURE, C
0
4
8
12
16
0
60
120
180
240
300
PRESSURE, DB
REF. NO. 77 - 9 - 57
48-38.0 N 126-0.0 W
MO.-1 DAY-11 GMT-4.8
31
32
33
34
35
SALINITY, O/OO

OFFSHORE OCEANOGRAPHY GROUP
REFERENCE NO. 77- 9- 57 DATE 11/ 1/78 STATION 2
POSITION 48-38.0N, 12o- 0.0W GMT 4.8
RESULTS OF STP CAST 31 POINTS TAKEN FROM ANALOG TRACE

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	9.95	32.10	0	24.72	323.1	0.0	0.0	1486.
10	9.95	32.11	10	24.73	322.7	0.32	0.02	1487.
20	9.96	32.13	20	24.75	321.3	0.65	0.07	1487.
30	9.97	32.18	30	24.79	317.9	0.97	0.15	1487.
50	9.89	32.42	50	24.98	299.3	1.58	0.40	1487.
75	9.77	32.58	75	25.13	286.3	2.31	0.86	1488.

DEPTH	TEMP	SAL	DEPTH	TEMP	SAL
0.	9.95	32.10	52.	9.87	32.43
7.	9.95	32.11	55.	9.83	32.45
9.	9.95	32.11	57.	9.81	32.47
18.	9.96	32.12	59.	9.79	32.51
21.	9.96	32.14	60.	9.78	32.54
27.	9.96	32.16	61.	9.78	32.56
32.	9.97	32.20	66.	9.77	32.57
36.	9.95	32.25	72.	9.77	32.58
38.	9.95	32.34	73.	9.77	32.58
39.	9.94	32.36	77.	9.77	32.58
41.	9.94	32.37	78.	9.77	32.58
42.	9.96	32.39	80.	9.78	32.58
44.	9.97	32.39	82.	9.78	32.58
45.	9.98	32.40	83.	9.78	32.58
47.	9.94	32.41	84.	9.78	32.58
49.	9.90	32.42			


TEMPERATURE, C
0
4
8
12
16
0
60
120
180
240
300
PRESSURE, DB
REF. NO. 77 - 9 - 58
48-33.0 N 125-33.0 W
MO.-1 DAY-11 GMT-7.1
31
32
33
34
35
SALINITY, O/OO

OFFSHORE OCEANOGRAPHY GROUP
REFERENCE NO. 77- 9- 58 DATE 11/ 1/78 STATION 1
POSITION 48-33.0N, 125-33.0W GMT 7.1
RESULTS OF STP CAST 47 POINTS TAKEN FROM ANALOG TRACE

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	9.87	31.98	0	24.64	330.8	0.0	0.0	1486.
10	9.88	31.99	10	24.65	330.5	0.33	0.02	1486.
20	9.89	32.06	20	24.70	325.7	0.66	0.07	1487.
30	10.00	32.19	30	24.79	317.6	0.98	0.15	1487.
50	9.96	32.42	50	24.97	300.4	1.60	0.40	1488.
75	9.88	32.50	75	25.05	294.0	2.34	0.87	1488.

DEPTH	TEMP	SAL	DEPTH	TEMP	SAL
0.	9.87	31.98	41.	10.03	32.33
2.	9.86	31.98	42.	10.02	32.39
3.	9.86	31.98	43.	10.02	32.39
7.	9.88	31.99	47.	9.98	32.41
11.	9.88	31.99	51.	9.96	32.43
12.	9.88	31.99	52.	9.96	32.43
15.	9.88	31.99	57.	9.95	32.44
18.	9.88	31.99	62.	9.93	32.46
20.	9.89	32.06	63.	9.93	32.47
21.	9.89	32.09	66.	9.92	32.48
23.	9.95	32.11	67.	9.92	32.49
24.	10.01	32.12	69.	9.90	32.50
25.	10.00	32.13	71.	9.89	32.50
26.	9.96	32.14	74.	9.88	32.50
27.	9.96	32.14	75.	9.88	32.50
28.	9.97	32.16	79.	9.86	32.51
29.	9.99	32.18	80.	9.86	32.51
31.	10.01	32.21	84.	9.86	32.52
32.	10.04	32.24	85.	9.85	32.52
33.	10.05	32.25	86.	9.85	32.52
35.	10.07	32.26	87.	9.85	32.52
36.	10.07	32.27	88.	9.85	32.52
37.	10.07	32.27	89.	9.85	32.52
39.	10.04	32.30			

Surface Salinity and Temperature Observations

(P-77-9)

SURFACE SALINITY AND TEMPERATURE OBSERVATIONS
CRUISE REFERENCE NUMBER 77- 9

DATE/TIME				SALINITY	TEMP	LONGITUDE
YR	MO	DY	GMT	O/OO	C	WEST
77	12	2	1811	31.242		123-30
77	12	2	1924	30.736		124- 0
77	12	2	2055	30.022		124-30
77	12	2	2225	31.669b		125- 0
77	12	3	0	31.948b	9.7	125-33
77	12	3	120	32.135b	9.8	126- 0
77	12	3	310	32.322b	9.7	126-40
77	12	3	600	32.342b	9.7	127-40
77	12	3	910	32.381b	8.9	128-40
77	12	3	1225	32.424b	9.2	129-40
77	12	3	1900	32.393b	8.6	131-40
77	12	3	2215	32.471b	9.2	132-40
77	12	4	130	32.470b	8.5	133-40
77	12	4	1750	32.613b	7.5	138-40
77	12	4	2100	32.656b	7.6	139-40
77	12	5	45	32.654	7.4	140-40
77	12	5	420	32.707b	7.0	141-40
77	12	5	720	32.798	6.5	142-40
77	12	5	1150	32.760	6.5	143-40
77	12	6	0	32.765b	6.3	ON STATION
77	12	7	0	32.765	6.4	ON STATION
77	12	8	0	32.769	6.4	ON STATION
77	12	9	0	32.767b	6.4	ON STATION
77	12	10	0	32.757	6.3	ON STATION
77	12	11	0	32.759	6.2	ON STATION
77	12	12	0	32.759	6.3	ON STATION
77	12	13	0	32.763	6.1	ON STATION
77	12	14	0	32.756	6.1	ON STATION
77	12	15	0	32.764b	6.1	ON STATION
77	12	16	0	32.771	6.0	ON STATION
77	12	17	0	32.771	5.9	ON STATION
77	12	18	0	32.771	5.8	ON STATION
77	12	19	0	32.790	5.9	ON STATION
77	12	20	0	32.774	5.8	ON STATION
77	12	21	0	32.771	5.8	ON STATION
77	12	22	0	32.776	5.7	ON STATION
77	12	23	0	32.792	5.4	ON STATION
77	12	24	0	32.776	5.8	ON STATION
77	12	25	0	32.783	5.8	ON STATION
77	12	26	0	32.781b	5.7	ON STATION
77	12	27	0	32.784	5.8	ON STATION
77	12	28	0	32.776	5.7	ON STATION
77	12	29	0	32.788	5.7	ON STATION
77	12	30	0	32.786	5.7	ON STATION

SURFACE SALINITY AND TEMPERATURE OBSERVATIONS
CRUISE REFERENCE NUMBER 77- 9

DATE/TIME				SALINITY	TEMP	LONGITUDE
YR	MO	DY	GMT	0/00	C	WEST
77	12	31	0	32.780	5.7	ON STATION
78	1	1	0	32.775	5.7	ON STATION
78	1	2	0	32.780	5.7	ON STATION
78	1	3	0	32.775	5.7	ON STATION
78	1	4	0	32.783	5.6	ON STATION
78	1	5	0	32.787	5.7	ON STATION
78	1	6	0	32.785	5.6	ON STATION
78	1	7	0	32.794	5.6	ON STATION
78	1	8	0	32.791b	5.7	ON STATION
78	1	8	2040	32.792b	5.8	143-40
78	1	8	2320	32.776b	5.8	142-40
78	1	9	155	32.735b	6.0	141-40
78	1	9	440	32.780b	6.3	140-40
78	1	9	715	32.743b	6.5	139-40
78	1	9	1000	32.591b	7.2	138-40
78	1	9	1245	32.535b	7.4	137-40
78	1	9	1540	32.458	7.3	136-40
78	1	9	1835	32.502b	7.0	135-40
78	1	9	2140	32.489	7.1	134-40
78	1	10	55	32.501b	7.7	133-40
78	1	10	410	32.498	7.9	132-40
78	1	10	740	32.465b	7.9	131-40
78	1	10	1030	32.492	8.2	130-40
78	1	10	1425	32.490b	8.1	129-40
78	1	10	1730	32.481	8.0	128-40
78	1	10	2146	32.363	8.6	127-40
78	1	11	200	32.371	9.0	126-40
78	1	11	452	32.136	9.9	126- 0
78	1	11	711	31.963	9.7	125-33
78	1	11	913	29.544	8.4	125- 0
78	1	11	1105	29.723	8.2	124-30
78	1	11	1300	29.957	7.9	124- 0
78	1	11	1510	30.931	7.7	123-30

b DENOTES SALINITY SAMPLE TAKEN FROM A BUCKET. ALL OTHER SAMPLES TAKEN FROM THE SEAWATER LOOP

List of Omissions from Data

Hydrographic Data:

Consec. #	Depth (m)	Temp.	Sal.	O_2	Notes 1.	2.	3.	Comments
5	1989		*					No sample
	4075		*				*	
	4075			*		*		
8	3949		*			*		
	3949			*		*		
19	3451		*			*		
	3451			*		*		
	3946		*			*		
	4143		*			*		
26	2804		*			*		
	2804			*		*		
	3287		*			*		
	3287			*		*		
	3951		*				*	
39	2489		*			*		
	2489			*		*		

Notes (MacNeill, 1977):

1. The data is suspect because of a reversal of gradient by >.01 °/oo (salinity) or >.08 ml/ℓ (oxygen).

2. The data is deleted because of very irregular data values (usually a mistripping or leaking bottle if both oxygen and salinity are irregular).

3. The data is deleted because duplicate samples at a depth were not within .01 °/oo (salinity) or .08 ml/ℓ (oxygen).

STD Data:

Consecutive number	Comments
21 and 22	Salinity omitted; problems with conductivity probe

Note: Consecutive numbers 11-16, 31-35 and 43-48 are part of the MILE program and are not included in this report.

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A LORAN-C CALIBRATION, THE WEST CANADIAN CHAIN INSHORE OPERATIONS AND DATA ANALYSIS

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by

A. Mortimer

D.H. Gray and R.M. Eaton

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Sidney, B.C.

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Pacific Marine Science Report 78-17

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INSHORE OPERATIONS AND DATA ANALYSIS

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Sidney, B.C.

1978

This is a manuscript which has received only limited circulation. On citing this report in a bibliography, the title should be followed by the words "UNPUBLISHED MANUSCRIPT" which is in accordance with accepted bibliographic custom.

ABSTRACT

This report describes the collection and analysis of data used to investigate near shore changes in the phase lags of 100 Khz Loran-C propagation. The results of the analysis have application to latticing medium scale charts of inshore areas. The data collected is tabulated in this report.

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Lt. W. deGeorge	U.S.C.G., George, Washington
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Mr. E. Schening	C.C.G., Telecom, Ottawa
Mr. B. Davies	C.C.G., Telecom, Ottawa
Mr. J. Rennie	C.C.G., Telecom, Ottawa
Mr. B. Deane	Station Manager, Williams Lake
Mr. T. Kew	C.C.G., Vancouver
Mr. J. Howard	D.O.C., Vancouver
Mr. R. Baker	C.C.R.S., Ottawa

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INTRODUCTION

The Canadian Hydrographic-Service conducted a charting calibration of the West Canadian Loran-C Chain in the spring of 1977. The Loran-C positioning system is claimed to give repeatability of ±50 metres (m) for a hyperbolic position line. Thus, there are many potential applications in inshore areas. The transmitters for the chain are at Williams Lake, B.C. (Master), Shoal Cove, Alaska (X-Secondary) and George, Washington (Y-Secondary), where the transmission paths to the Straits of Georgia and Juan de Fuca are, for the most part, over land with non-homogeneous conductivity (see Fig. 1). Therefore large systematic errors can exist in Loran-C positions observed in inshore areas due to the difficulty in accurately predicting the phase lags caused by variations in surface conductivities.

The inshore calibration work was undertaken from 14th to the 21st April (Days 104 to 111), in C.S.S. Vector (shown in Fig. 2) (Capt. J. Marston). This work was to determine if it was possible to accurately lattice charts in Juan de Fuca and Georgia Straits, and to answer some theoretical questions concerning the incorporation of Additional Secondary Factor (A.S.F.) into Loran-C lattices generally. In addition to collecting data for the West Canadian Chain, the transmissions from the U.S. West Coast Chain were also monitored from the 18th to the 21st of April. The Austron 5000 Monitor receiver had some difficulty tracking the signals from Fallon (Master) and Middletown (X-Secondary). The data for the West Canadian Chain is tabulated in Appendix 1; and that for the U.S. West Coast Chain is given in Appendix 2. The time of arrival (T.O.A.) data for the Williams Lake and George transmissions are based on field measurements of travel times (from the transmitters to Victoria (see reference 1).

PURPOSE

The theoretical studies were designed to investigate problems posed by analysis and by "good common sense". Millington's method was used to predict phase lags.



WEST CANADIAN LORAN-C CHAIN

Figure 1.



Figure 2.
C.S.S.Vector.
(in Howe Sound.)

1. Electromagnetic wave propagation theory proposes that there is a phase recovery in the A.S.F. of a transmission after crossing the land-sea interface. A recovery of A.S.F. of 0.2 microseconds is predicted for the first two kilometres on the seaward side of the interface, and then another 0.5 microseconds in the next 100 km. We planned that the Vector steam along lines radial to Williams Lake, one off the entrance to Juan de Fuca Strait and another down Howe Sound and across the Strait of Georgia. Thus the phase recovery effect would be quantitatively demonstrated by calibration along these lines.

2. The area off the entrance to Juan de Fuca Strait allowed an investigation of the effect of a rapid change in the length of land path between the transmitter and the service area. As a ship rounds Cape Flattery from the south the land path to the Y-Secondary decreases by more than 100 km after only a few miles steaming. Thus in this area another facet of our A.S.F. models could be checked.

3. To determine if Loran-C chart lattices could be drawn accurately in to the shore, calibration measurements were made as close as possible to the coast. Measurements also were made among the islands and in a fjord to check the possibility of accurately latticing charts of these areas where A.S.F. changes rapidly.

4. The data obtained from the U.S. West Coast Chain was evaluated to see if this chain could be used as a substitute for the West Canadian Chain in South Western B.C. waters.

5. All the data collected was to be evaluated to define the repeatability and value of the random error when Loran-C is applied to survey positioning.

EQUIPMENT

The following navigational equipment was placed in C.S.S. Vector.

1 Loran-C Monitor System (On loan from U.S.C.G.)
c/w 1 Austron 5000 Loran-C Monitor Receiver
1 P.D.P. 8e computer
1 A.S.R. Data Terminal
1 Passive Notch Filter Array
1 Whip Antenna
1 Uninterruptable Power Supply Unit
1 Line Conditioner
1 HP 5062C Cesium Frequency Standard

1 Trisponder Positioning System
c/w 3 Transponders

1 Portable Hydrographic Acquisition System
- P.H.A.S. data logger

1 Decca DL 91 Loran-C Receiver

1 Internav LC 204 Loran-C Receiver

1 HP 9825 Calculator.

METHOD

Day 104. Approaches to Victoria.

Fourteen positions were determined using two resection angles taken by sextants in the area from Trial Islands to Race Rocks at the entrance to Victoria Harbour. All positions were computed from these angles and the known geographic positions of the targets. The accuracy of the resulting position is in the order of 10 m or 0.03 microseconds of a T.O.A. measurement.

Days 105 - 106. Entrance to Juan de Fuca Strait (see Figure 3).

Calibration of T.O.A.'s from Master and Y-Secondary (George) was performed at the entrance to Juan de Fuca Strait. Radial lines from Master were steamed off Carmanah Point and Pachena Point to detect the phase recovery phenomenon of the Master T.O.A. and to detect the change in A.S.F. due to the amount of land path on the George T.O.A. A radial line was also run to join the two above-mentioned radials. Thus the phase recovery phenomenon should show on the George T.O.A. and a constant A.S.F. should show on the Master T.O.A. since the land-sea paths are almost constant.

Positions were determined by ranges to two Trisponder units. One unit was on Pachena Point lighthouse and the other was on Sooes Mountain (S.E. of Cape Flattery), with the co-operation of the U.S. National Ocean Survey. In the area of the baseline crossing between the two Trisponders, resection by sextant angles between lighthouses were used. Some fixes used a combination of sextant angles and Trisponder ranges. Positions should be accurate to a few metres which converts to about 0.02 microseconds in the computed T.O.A.

Day 108. Gulf Islands.

The ship steamed from Patricia Bay to Naniamo via Satellite Channel, Shute Passage, Prevost Passage, Haro Strait, Plumper Sound, Navy Channel, Trincomali Channel, Pylades Channel, Ruxton Passage and Dodd Narrows (see Figure 4). During this trip 78 calibration points were observed using two resection sextant angles. Some fixes were established by sighting lighthouses or other points with definitive positions; thus these fixes could be computed. Other fixes used tangents to islands, small rocks, etc. These fixes had to be plotted using a three-armed protractor and then the latitude and longitude scaled. The resulting position is only accurate to about one second of latitude or longitude which is 0.1 microseconds or more in the computed T.O.A.

Data from the U.S. West Coast Chain was logged at 2-minute intervals throughout the day.

Days 109, 110 and 111. Georgia Strait and Howe Sound.

Various lines were steamed in the Gulf of Georgia during the three days (see Figure 5). The most important one is the radial from Master through Howe Sound and the Strait of Georgia from Woodfibre to Galiano Island. Its purpose is to test the phase recovery phenomenon, the closest approach to shore and reliability within confined waters. The other lines were short

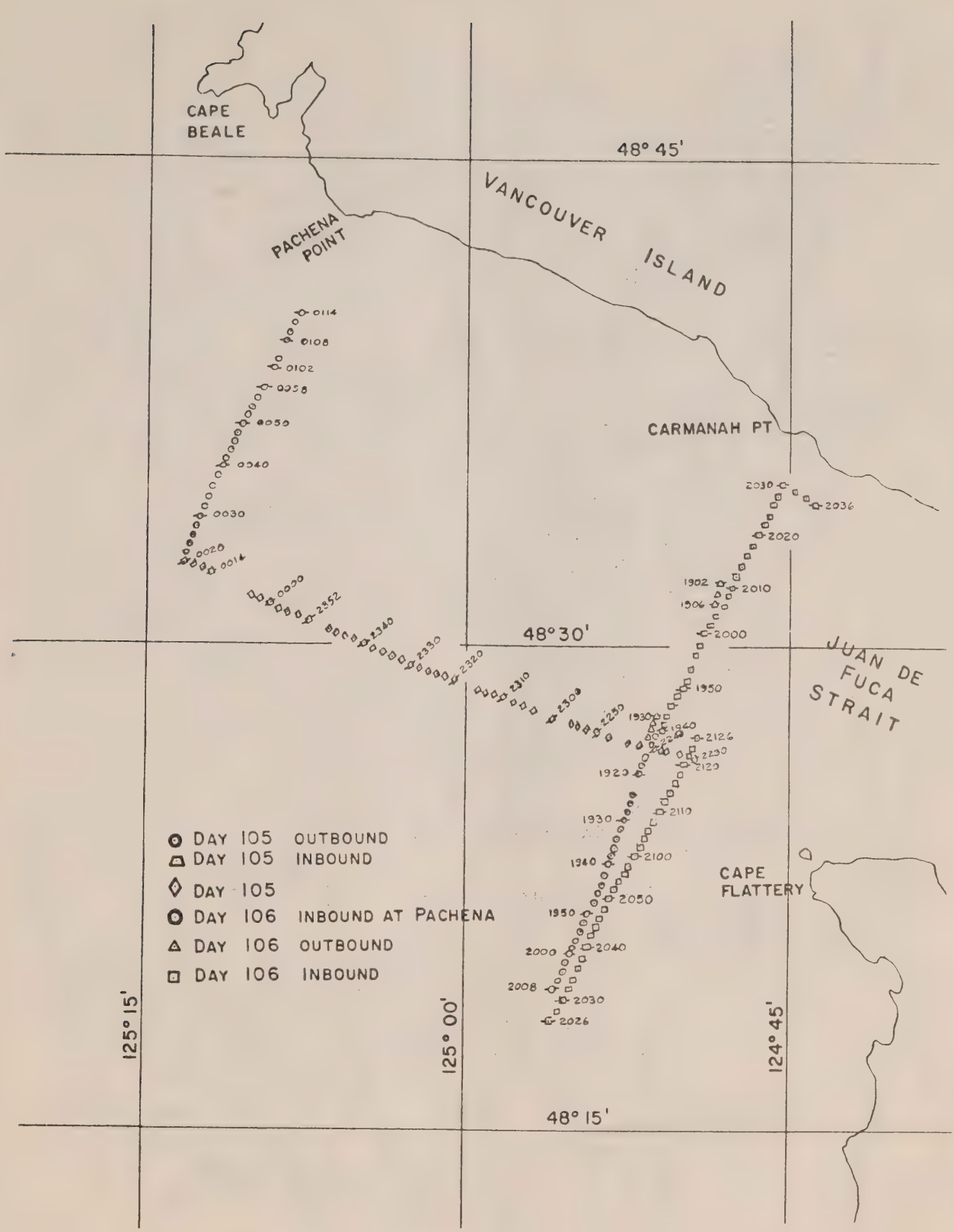


Figure 3.

ENTRANCE TO JUAN DE FUCA STRAIT



Figure 4.

GULF ISLANDS - -CALIBRATION POSITIONS

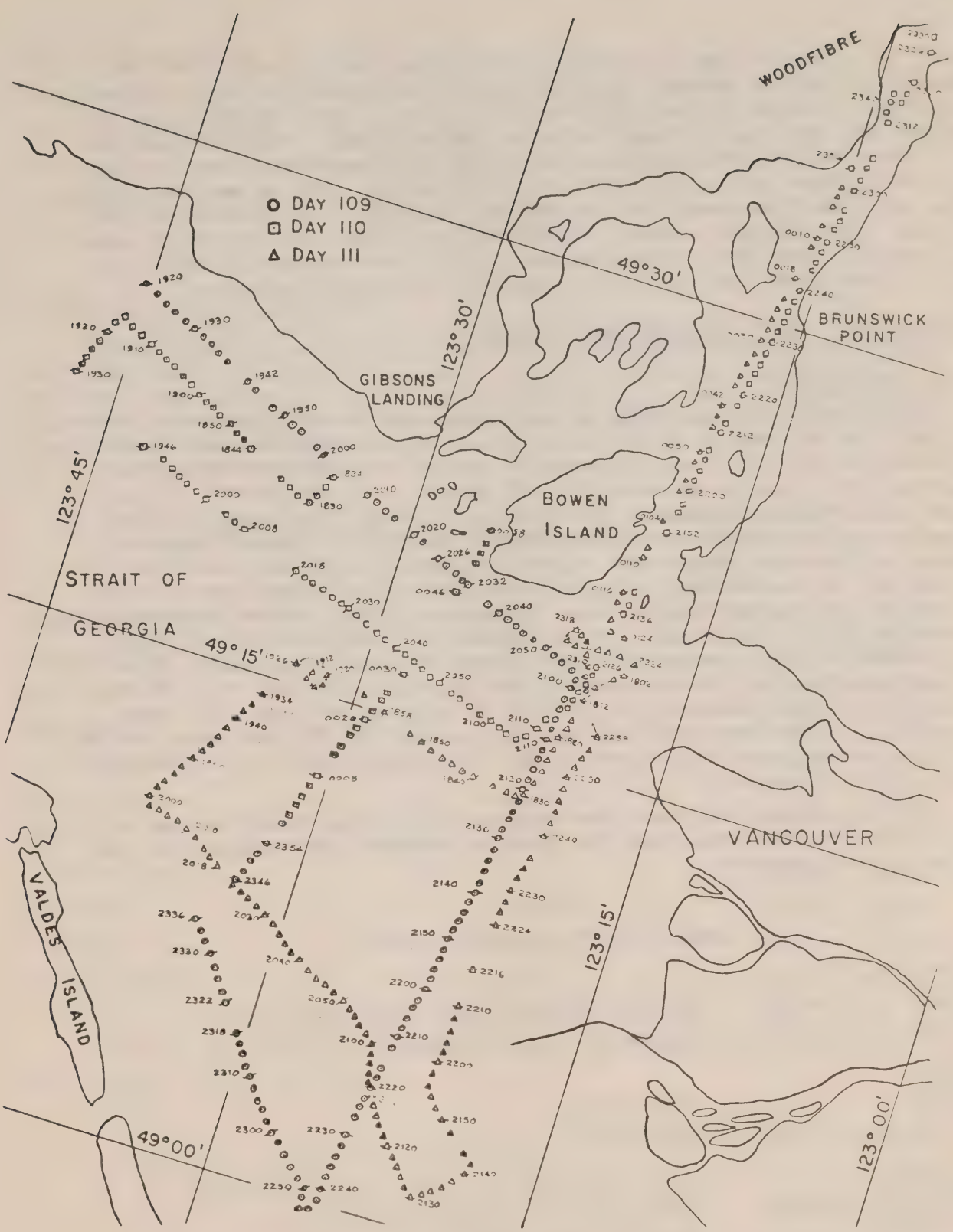


Figure 5.
GEORGIA STRAIT CALIBRATION POSITIONS

radials or cross-section lines that criss-crossed, which could prove the repeatability of the system. Positions within the Strait of Georgia were determined by ranges to two Trisponder units, one on Mount Benson (S.W. of Nanaimo) and the other on Mount Parke (on Mayne Island). Position accuracy is in the order of a few metres or about 0.02 microseconds in the T.O.A. Positions in Howe Sound were determined by resection with two sextant angles. A few resection fixes could be computed but most had to be plotted and the latitude and longitude scaled. The plotted positions are accurate to about one second of latitude or longitude which is 0.1 microsecond in the T.O.A. The U.S. West Coast Chain data was logged at 10-minute intervals.

DATA ANALYSIS - WEST CANADIAN CHAIN (5990)

Verification of Position

Considerable time was spent in verifying that the positions were correct. One check was to compute the distance and course made good between fixes. Any anomalous A.S.F.'s from the analysis section were checked for correct observed T.O.A., and/or recomputation of the fix. If the Loran-C T.O.A.'s showed that the ship steamed a straight course at uniform speed, the dead reckoning position would be used to compute what the Trisponder ranges or sextant angles might have been. If one distance or angle was then found to be good and the second bad, a logical explanation could sometimes be found to account for the bad reading (e.g. transposed digits, course distance not updated by a full kilometre). If no explanation could be found to justify the correction, then the position was recomputed using dead reckoning and the one good observation. This is noted in the Appendix as either 1D + DR (one distance plus dead reckoning) or 1 SEC + DR (one sextant angle plus dead reckoning). There were only 14 fixes of the total of 700 that could not be verified as consistent with other fixes. These have been omitted from the listing in the Appendix.

There are some fixes where the receiver was having trouble on one or more T.O.A. The data reduction for these is purposely not complete in the listing in the Appendix.

Table 1

LORAN-C RECEPTION ERRORS (5990)

Master	
110-0040 to 110-0030	Tracking trouble, high gain, cycle error
111-2038 to 111-2104	Signal not on oscilloscope
George	
109-2020	Cycle error
110-1956 to 110-2008	Cycle error
Shoal Cove	
109-1920 to 109-2032	Good data (3rd cycle of groundwave)
at 109-2033	Receiver lost signal
109-2038 to 109-2148	Receiver trying to track 2nd cycle of groundwave but with very high gain

Shoal Cove (Cont'd)

at 109-2149	Receiver put onto skywave
109-2150 to 110-0058	Tracking 3rd cycle to skywave
111-2216 to 111-2324	Tracking 3rd cycle of skywave
111-2328 to 111-2334	Tracking 4th cycle of skywave but receiver "thinks" its 3rd cycle

Reduction of Time of Arrivals

The observed T.O.A.'s of the Master and Y-Secondary transmissions have been reduced for clock drift and for clock synchronization. The T.O.A.'s have been made consistent with a constant value for master at the Patricia Bay wharf. The short term clock drift rates observed during the inshore operations are listed in Table 2.

Table 2

SHORT TERM CLOCK RATES (microseconds per day)

(5990)

Clock Rate at:	Day	Hours	U.S.C.G. System
Patricia Bay	104	23	0.167 ± 0.0125
Port Renfrew	105	11	0.179 ± 0.0411
Bamfield	106	12	0.079 ± 0.0288
Patricia Bay	107	13	0.115 ± 0.0276
Patricia Bay	108	21	0.232 ± 0.0087
Nanaimo	109	14	0.093 ± 0.0086
Gibsons Landing	110	12	0.235 ± 0.0150
Vancouver	111	14	0.264 ± 0.0142
Vancouver	112	8	0.480 ± 0.0339
Patricia Bay	112	5	0.096 ± 0.0341

The long term clock drift rates for the two closed circuits made in Vector are given in Table 3.

Table 3

Long Term Clock Rates (microseconds per day)

(5990)

	U.S.C.G. Master	U.S.C.G. George
Patricia Bay-Bamfield-Patricia Bay	0.2332	0.2268
Patricia Bay-Vancouver-Patricia Bay	0.2693	0.2576

Just before leaving Gibsons Landing, the U.S.C.G. system lost synchronization with the chain. When the system was started again, the readings had changed by 4199.998 microseconds, so the observed T.O.A.'s were reduced for clock drift and for clock synchronization, to have all T.O.A.'s consistent with a constant value of Master at the Patricia Bay wharf.

Table 4

CLOCK SYNCHRONIZATION VALUES

(5990)

Day	Correction (Microseconds)	Clock Rate Correction (Microseconds/day)
104-107.5	-31976.763	-0.2332 (Day - 104)
107.5-110.5	- 9840.505	-0.2693 (Day - 107.875)
110.5-113	-14040.503	-0.2693 (Day - 107.875)

For a fuller explanation of the clock drift and clock synchronization see Reference #1.

Monitor Corrections

During the period of the survey the Comox monitor controlled the chain at the following hyperbolic mean values:

X = 14892.1637 ± 0.005 microsec.

Y = 29503.2988 ± 0.002 microsec.

The simulated values for the Comox monitor to agree with the chain values after the commissioning on Sept. 5 are:

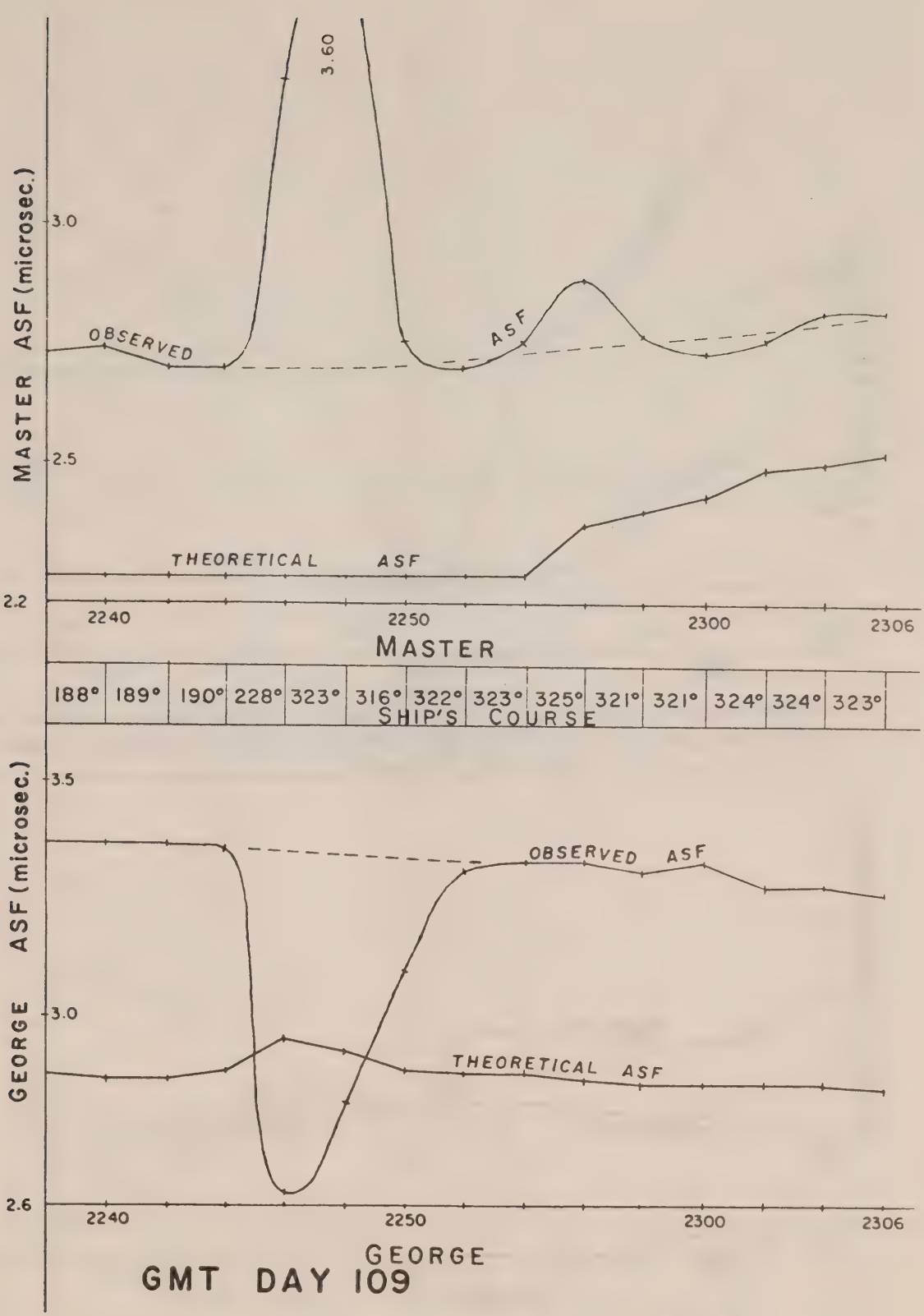
X = 14892.6807 microsec.

Y = 29504.2449 microsec.

(See Reference #1 for a fuller explanation of the simulated monitor values.) Therefore a 0.5170 microsec correction has to be applied to the Shoal Cove T.O.A.'s to produce what would have been observed after the commissioning. Similarly a 0.9461 microsec has to be added to George T.O.A.'s.

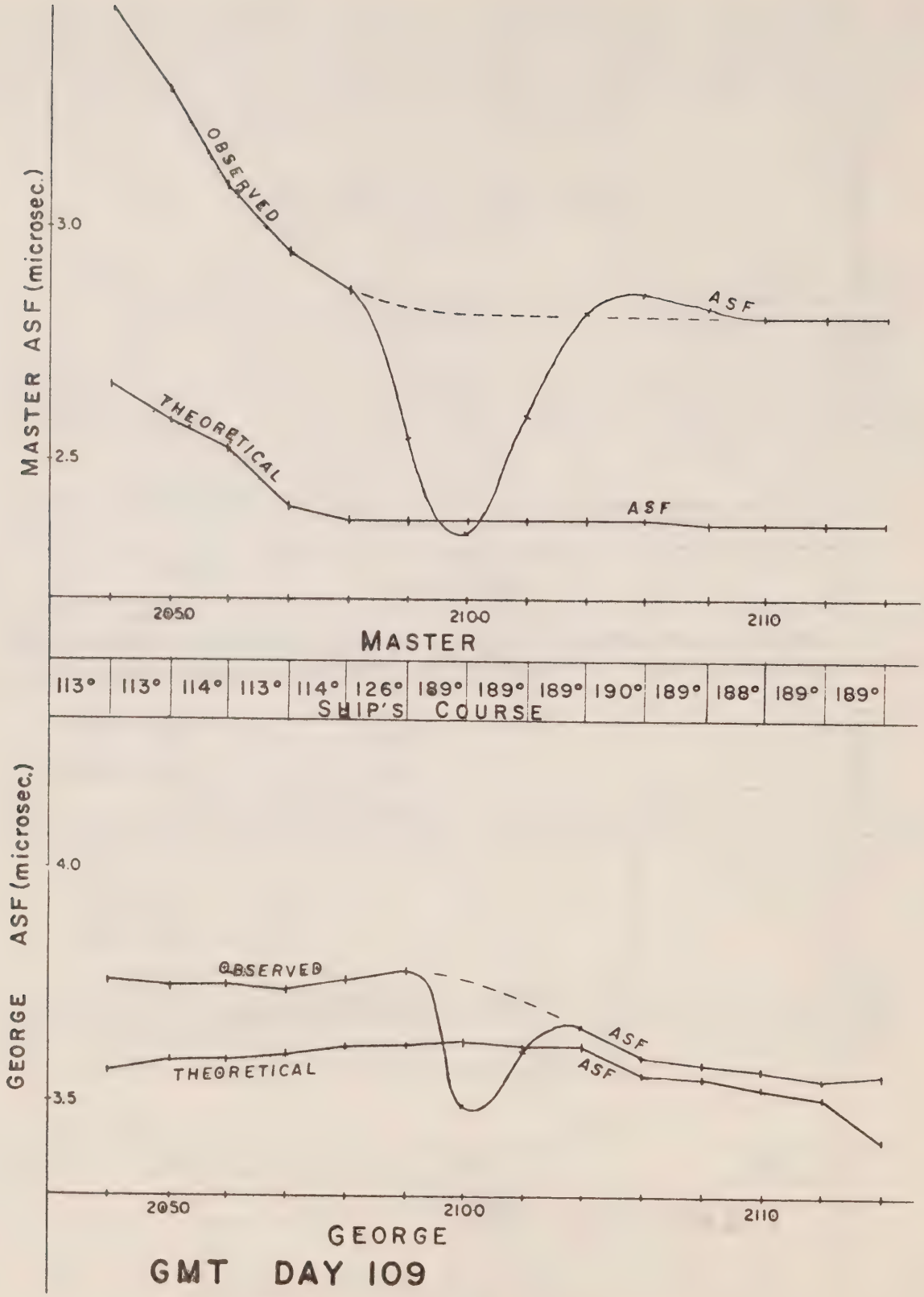
Turning the Ship

It became evident early in the analysis stage that the observed A.S.F.'s of fixes for the few minutes after a turn were not consistent with either the observed A.S.F.'s before the turn or those several minutes after the turn. Several graphs were made up to show the observed, and computed A.S.F. versus time. They are included as Figures 6, 7, 8 and 9. Also included is the course made good between fixes. There is a definite damped, sinusoidal curve fit to the observed A.S.F.'s after a turn. The maximum amplitude, period or damping constant does not seem to be predictable. In most cases, the initial

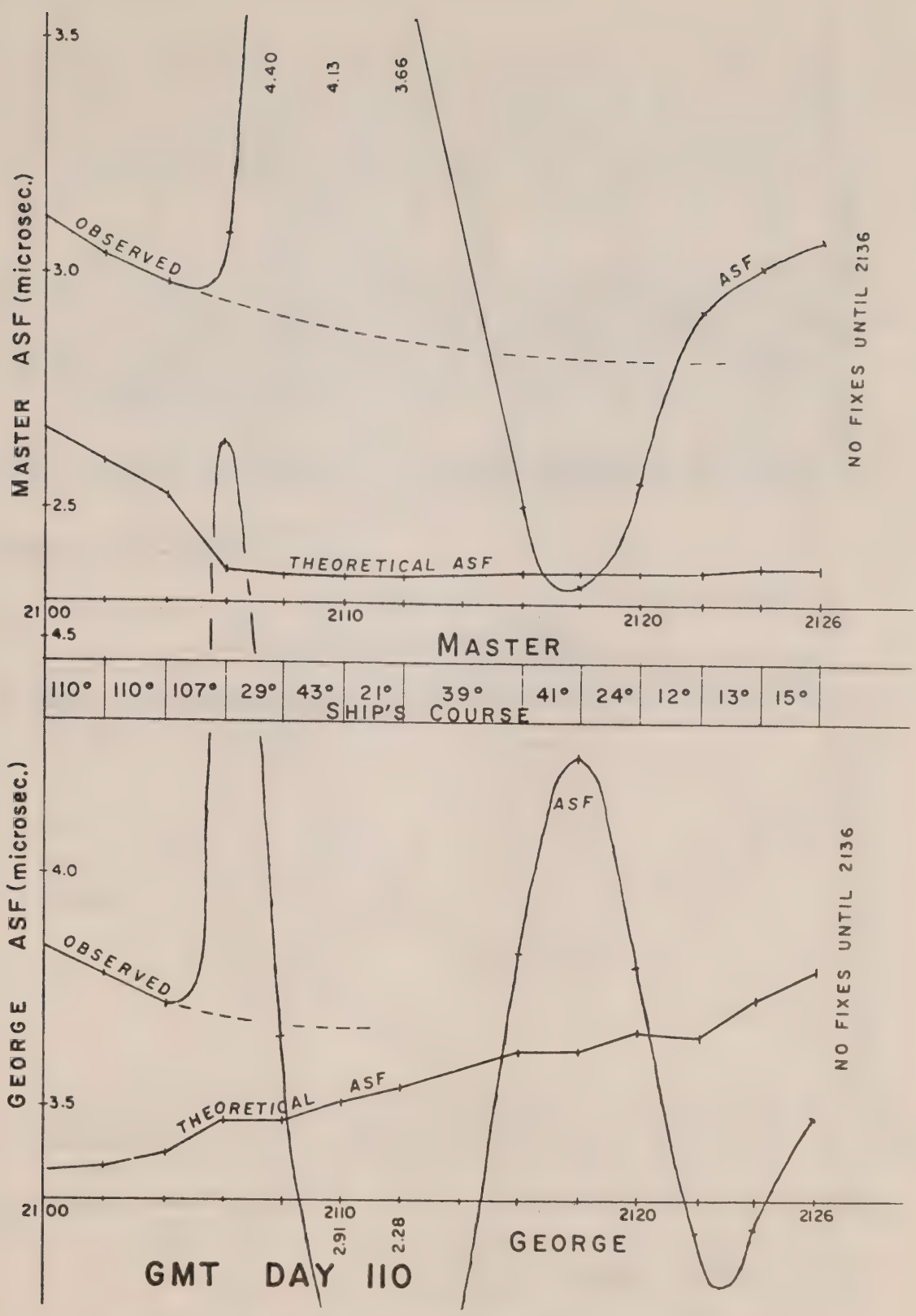


RECEIVER DAMPING AND COURSE ALTERATIONS

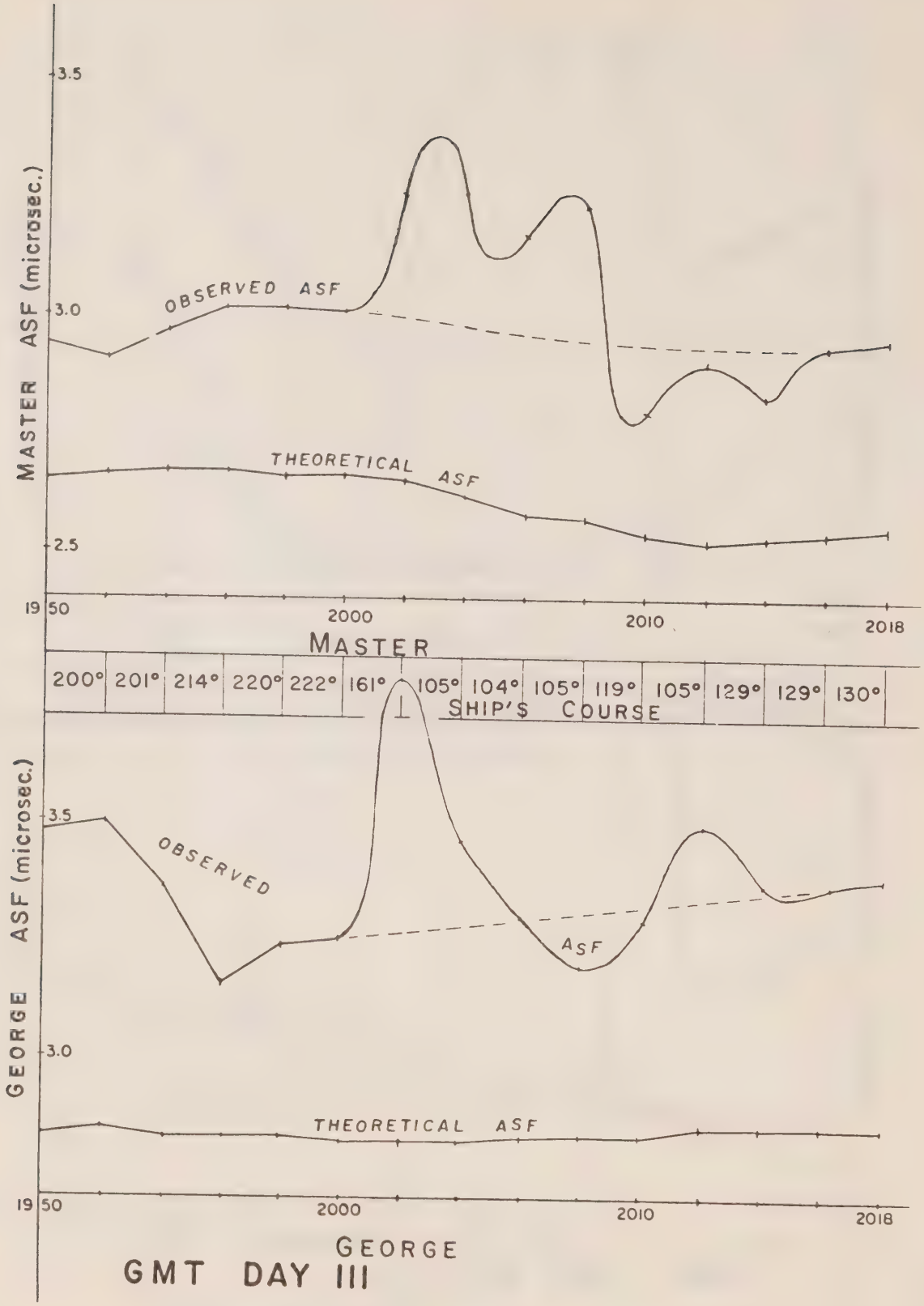
Figure 6.



RECEIVER DAMPING AND COURSE ALTERATIONS
Figure 7.



RECEIVER DAMPING AND COURSE ALTERATIONS
Figure 8.



RECEIVER DAMPING AND COURSE ALTERATIONS
Figure 9.

displacement of the observed A.S.F. is in the direction one would expect for a damped system. The maximum amplitude can be as large as 1.5 microseconds or as little as 0.1 microseconds. The period of the sine wave varied from 6 to 16 minutes. The period is not necessarily the same for the two T.O.A.'s. One can be fluctuating faster than the other. The length of time for the observed A.S.F. to settle down varied from 2 to 24 minutes, but was typically 8 minutes.

The time constant (TMCN) of the U.S.C.G. system was set at the normal default value of 400. This means that 400 Group Repetition Intervals (G.R.I.'s) are averaged to produce a single reading. For the Canadian West Coast Chain, the time for 400 G.R.I.'s is approximately 24 seconds. The readings should have settled down after 3 time constants, or 72 seconds, which is considerably different from the 8 minutes typically observed.

Readings affected by the ship turning are flagged in the Appendix since they were purposely discounted in the analysis because of this effect.

DISCUSSION

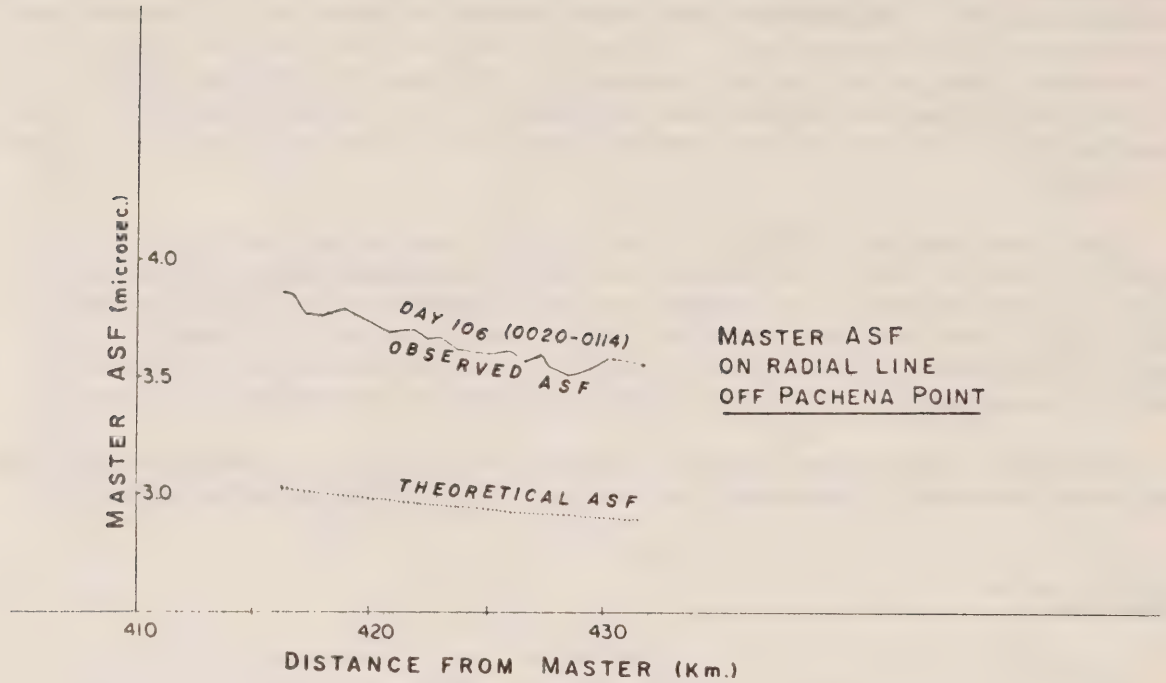
Table 5

RADIAL LINES FROM TRANSMITTERS

Figure	Day	Location	Transmitter	Length	Closest To Shore
9	105-106	Carmanah	Williams Lake	35 km	2 km
10	105	Carmanah-Pachena	George, Wash.	32 km	86 km
8	106	Pachena	Williams Lake	14 km	6 km
11	109-111	Howe Sd.-Galiano Is.	Williams Lake	76 km	1 km
12	109-110	14 km West of Grey Point	Williams Lake	25 km	11 km
14	111	Galiano Is.	George, Wash.	25 km	54 km
13	111	3 km West of Grey Point	Williams Lake	21 km	10 km

All radials appear to show the phase recovery phenomenon that was predicted (see Figures 10, 11, 12, 13 and 14). Some, particularly in Howe Sound, tend to exaggerate the amount of observed A.S.F. close to the land - sea boundary. This could be due to either an even lower land conductivity or a terrain effect. It is presumed to be the latter. The computed A.S.F.'s for the Master T.O.A.'s are based on a land conductivity of 0.0013 mho/m and 0.0006 mho/m for the George T.O.A.'s. A flat terrain and a homogeneous, both vertically and horizontally, medium for each path segment is assumed. The Howe Sound results indicate a slight sinusoidal curve in the first 20 km which might be caused by a variety of terrain effects, but more probably this sinusoidal curve is due to the inaccuracy of the sextant fixes.

The conclusion is that Millington's Method does predict an actual phase


MASTER ASF (microsec.)
4.0
3.5
3.0
DAY 106 (0020-0114)
OBSERVED ASF
THEORETICAL ASF
MASTER ASF
ON RADIAL LINE
OFF PACHENA POINT
410
420
430
DISTANCE FROM MASTER (Km.)

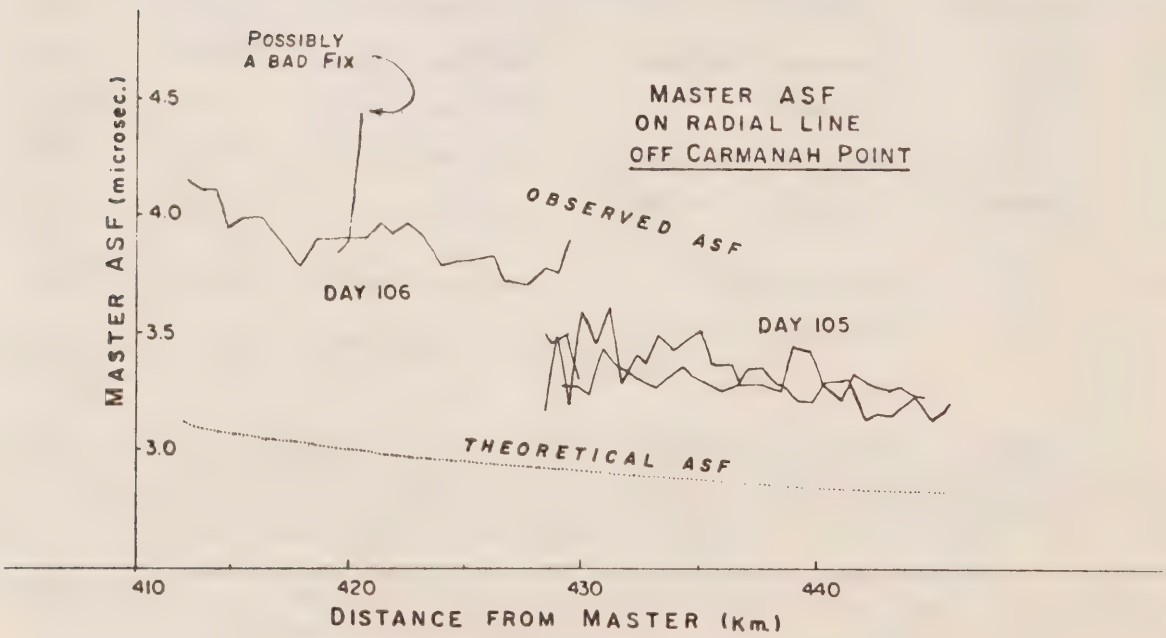

MASTER ASF (microsec.)
POSSIBLY
A BAD FIX
4.5
4.0
3.5
3.0
MASTER ASF
ON RADIAL LINE
OFF CARMANAH POINT
OBSERVED ASF
DAY 106
DAY 105
THEORETICAL ASF
410
420
430
440
DISTANCE FROM MASTER (Km.)

Figure 10.

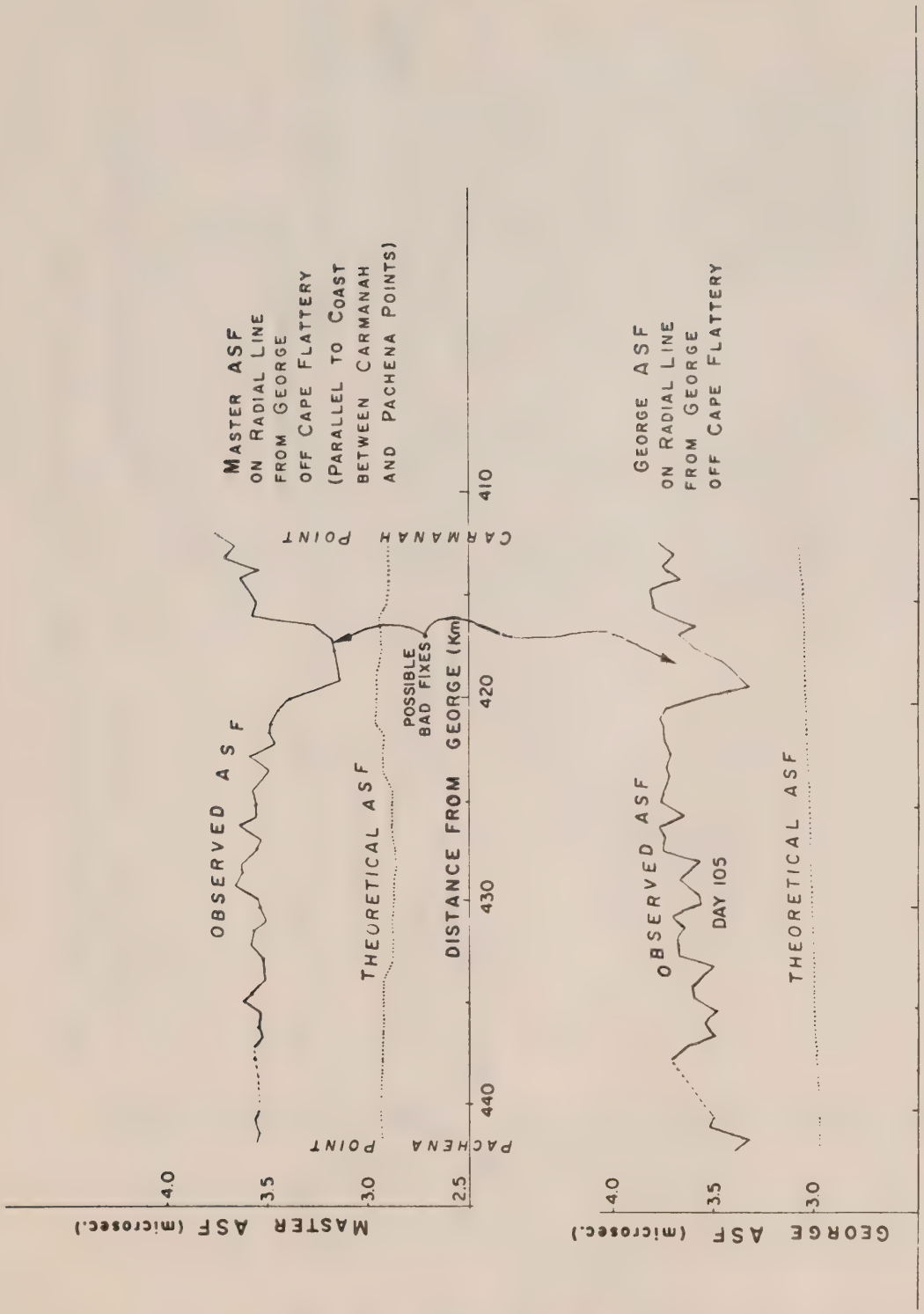
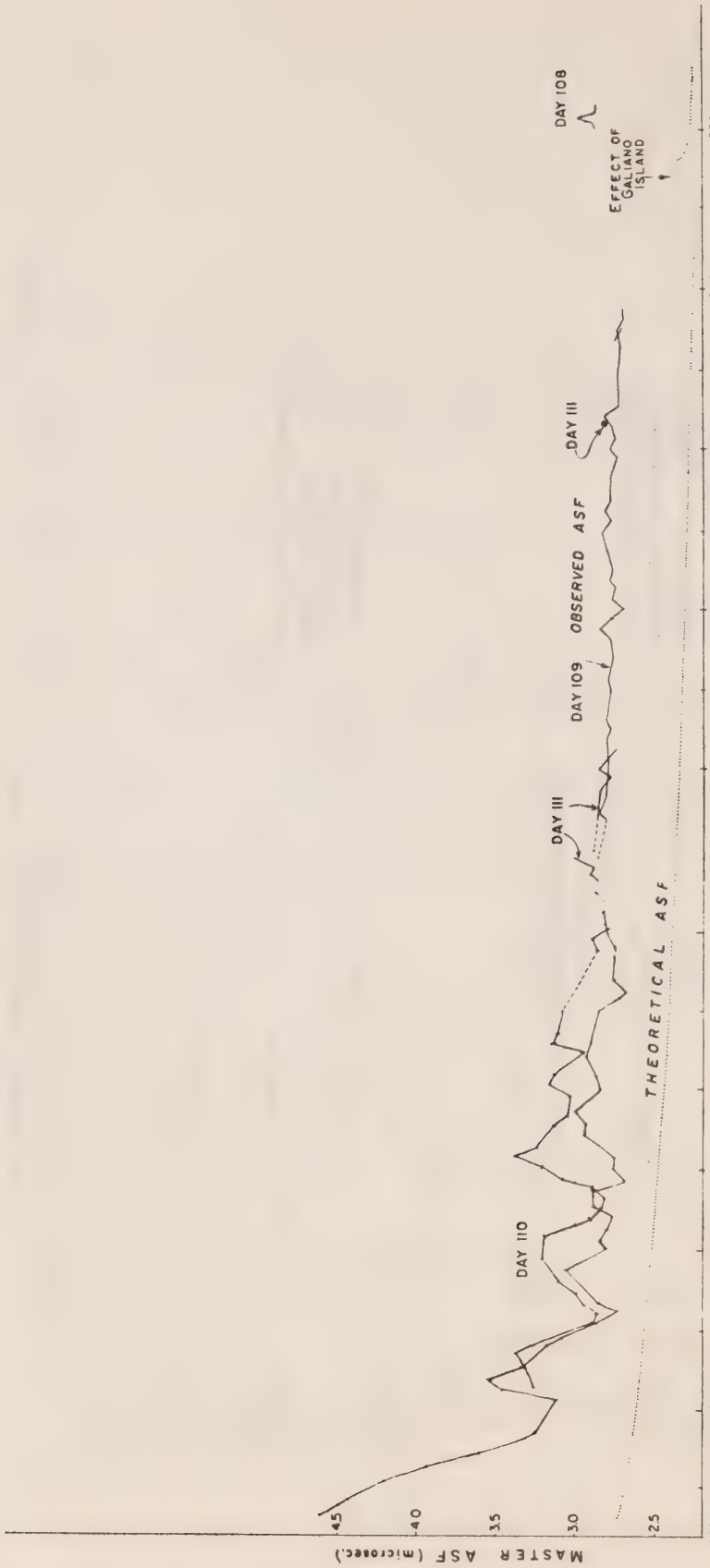

MASTER ASF (microsec.)
4.0
3.5
3.0
2.5
PACHENA POINT
CARMANAH POINT
440
430
420
410
DISTANCE FROM GEORGE (Km)
OBSERVED ASF
THEORETICAL ASF
POSSIBLE BAD FIXES
MASTER ASF ON RADIAL LINE FROM GEORGE OFF CAPE FLATTERY (PARALLEL TO COAST BETWEEN CARMANAH AND PACHENA POINTS)
GEORGE ASF (microsec.)
4.0
3.5
3.0
OBSERVED ASF
DAY 105
THEORETICAL ASF
440
430
420
410
DISTANCE FROM GEORGE (Km.)
GEORGE ASF ON RADIAL LINE FROM GEORGE OFF CAPE FLATTERY

Figure 11.



RADIAL FROM MASTER DOWN HOWE SOUND AND ACROSS GEORGIA STRAIT

Figure 12.

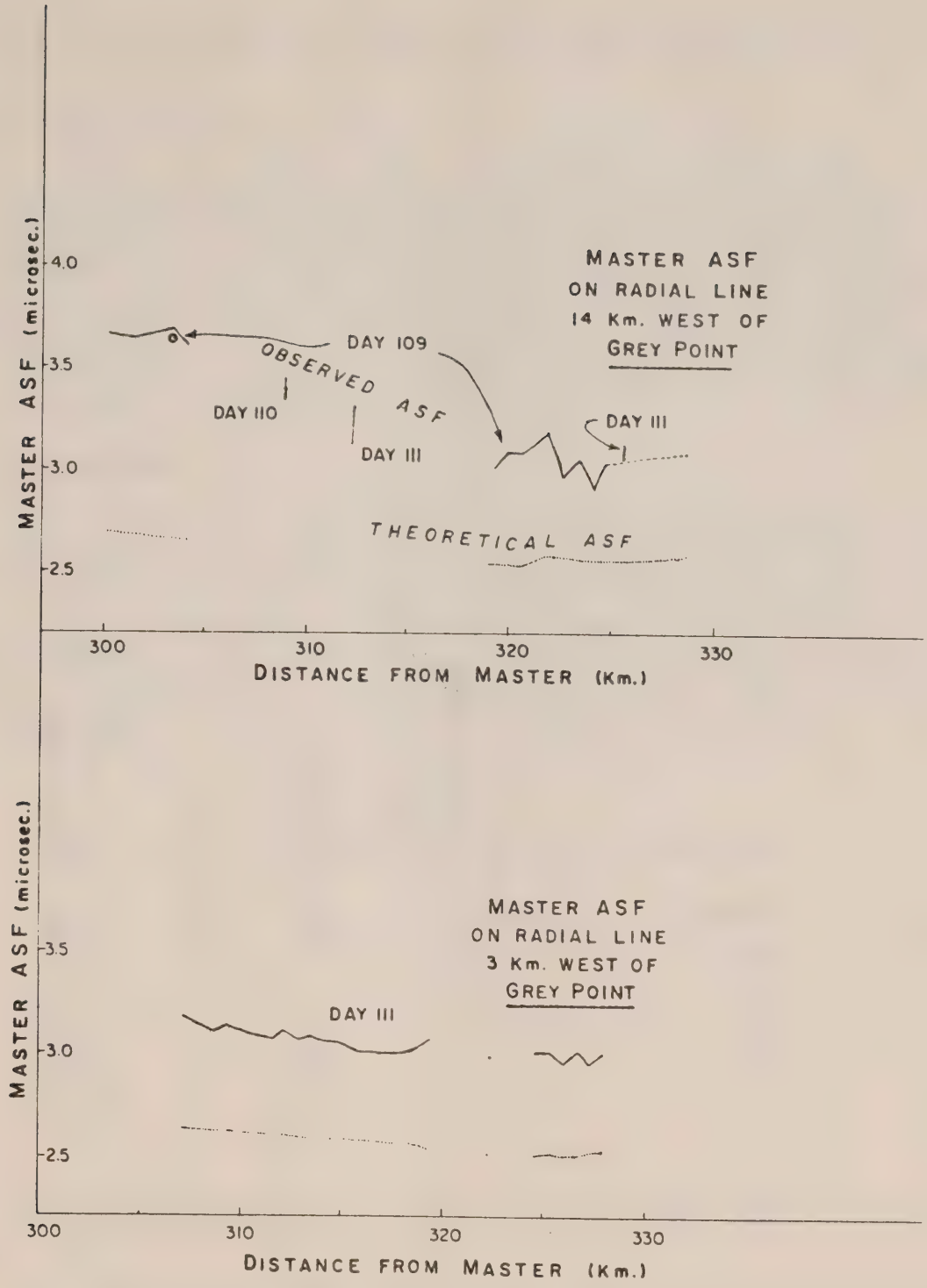

MASTER ASF (microsec.)
4.0
3.5
3.0
2.5
MASTER ASF
ON RADIAL LINE
14 Km. WEST OF
GREY POINT
DAY 109
OBSERVED ASF
DAY 110
DAY 111
DAY 111
THEORETICAL ASF
300
310
320
330
DISTANCE FROM MASTER (Km.)
MASTER ASF (microsec.)
3.5
3.0
2.5
MASTER ASF
ON RADIAL LINE
3 Km. WEST OF
GREY POINT
DAY 111
300
310
320
330
DISTANCE FROM MASTER (Km.)

Figure 13.

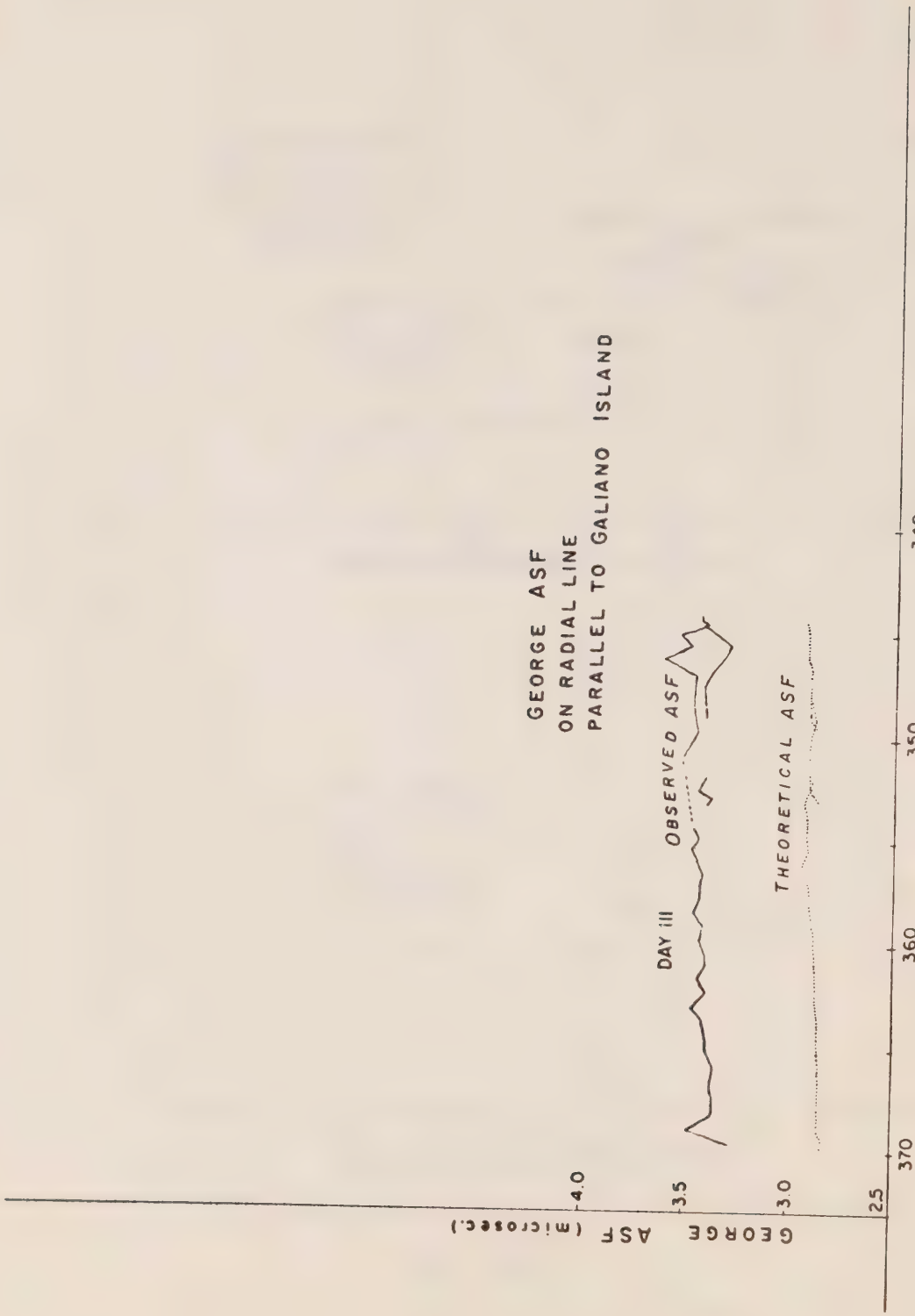

GEORGE ASF
ON RADIAL LINE
PARALLEL TO GALIANO ISLAND
DAY 111
OBSERVED ASF
THEORETICAL ASF
GEORGE ASF (microsec.)
4.0
3.5
3.0
2.5
360
350
340
370
DISTANCE FROM GEORGE (Km.)

Figure 14.

recovery effect, except very close to shore where there appears to be an additional terrain effect.

Rapid Change in A.S.F.

The profile of the George T.O.A. south of Carmanah Point crossing Juan de Fuca Strait and continuing south west of Cape Flattery has a rapid change in calculated A.S.F. Figure 15 shows the observed A.S.F. values as well as the computed A.S.F. The observed values do not drop as rapidly as the computed A.S.F., nor do they show the "plateau" which could be terrain effect caused by the 1000 - 2000 m high Olympic Mountains which are 10 km east of the profile line. The smoothing of the rapid drop at Cape Flattery could well be bending of a groundwave in the horizontal plane just as waves bend at the entrance in a breakwater of a harbour.

Proximity to Shore

In the subsection on radial lines, the effect of being close to shore was noted in Master A.S.F. near the top end of Howe Sound. In the previous paragraph, the possible effect of the Olympic Mountains on the George A.S.F. south of Cape Flattery was suspected. In Figure 16, NW-SE profiles of the Master A.S.F. in the lee of Bowen Island are shown. The theoretical A.S.F. indicates a slight "hump" for the shadow of 755 metre high Bowen Island whereas the observed A.S.F. shows a "hump" that is much higher. In both cases the hump is higher closer to shore than it is farther away from the island (see Figure 18).

Table 6

A.S.F. (MASTER 5990) IN THE LEE OF BOWEN ISLAND

	Theoretical	Observed	Diff.
2 km	0.42	0.90	0.48
7 km	0.37	0.72	0.35
10 km	0.35	0.56	0.21
25 km	0.27	0.28	-0.01
32 km	0.27	0.31	0.04

There is 0.5 microsecond of A.S.F. caused by being close to Bowen Island that is not accounted for by the theoretical A.S.F. The effect has died off beyond 20 km.

Figure 17 shows the predicted and observed A.S.F. on the George T.O.A. in Howe Sound and approaches. The radial lines in Howe Sound, where the distance to shore is as little as a few hundred metres (off Brunswick Point) dramatically show the proximity effect on observed A.S.F. It is 2.0 microseconds greater than predicted; whereas in the Strait of Georgia, the observed A.S.F. is only 0.5 microseconds greater than the predicted. That is an increase of 1.5 microseconds which most probably is caused by the close proximity to shores that have mountains 1800 metres high.

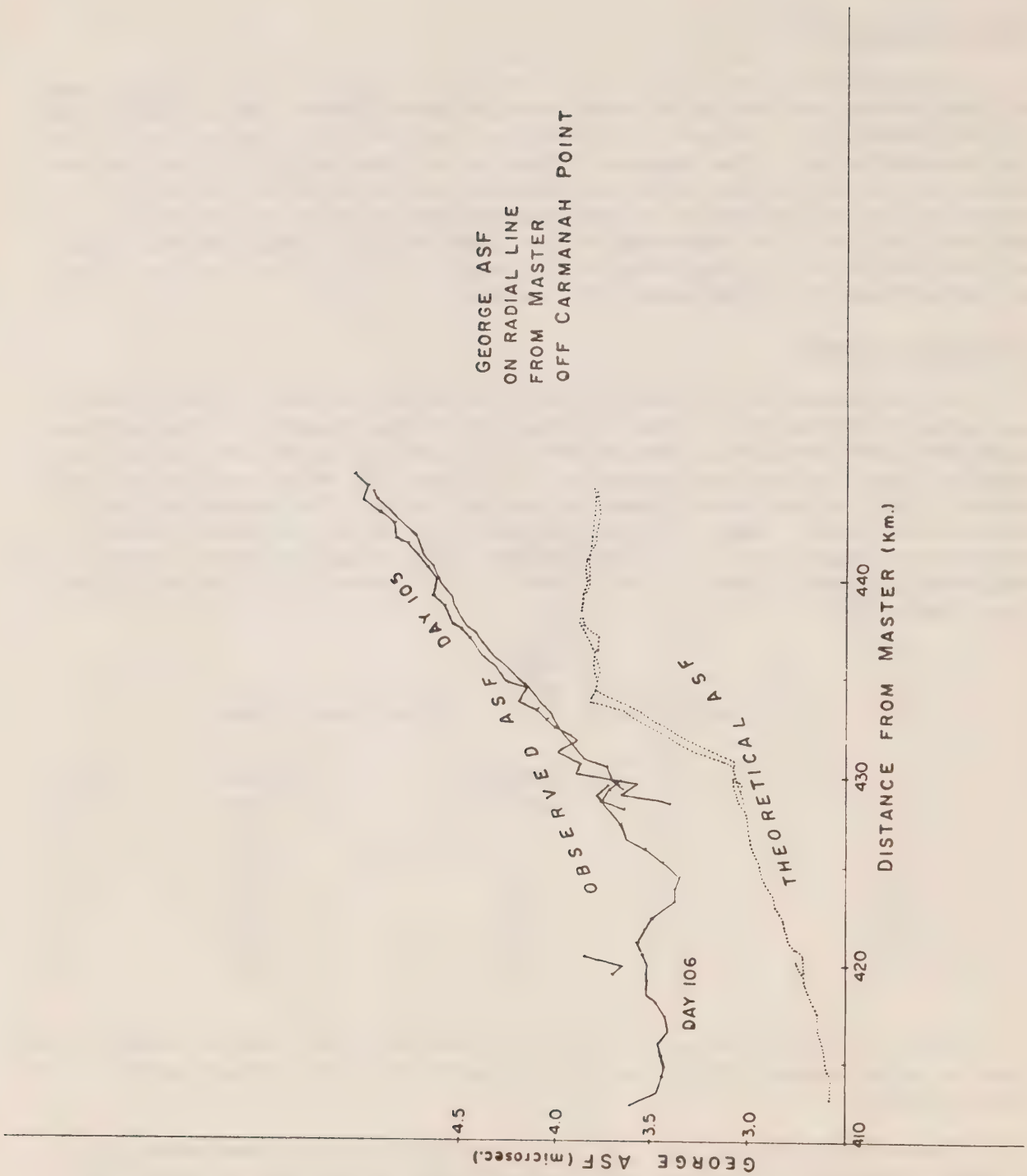

GEORGE ASF
ON RADIAL LINE
FROM MASTER
OFF CARMANAH POINT
DAY 105
OBSERVED ASF
DAY 106
THEORETICAL ASF
GEORGE ASF (microsec.)
DISTANCE FROM MASTER (Km.)
4.5
4.0
3.5
3.0
410
420
430
440

Figure 15.

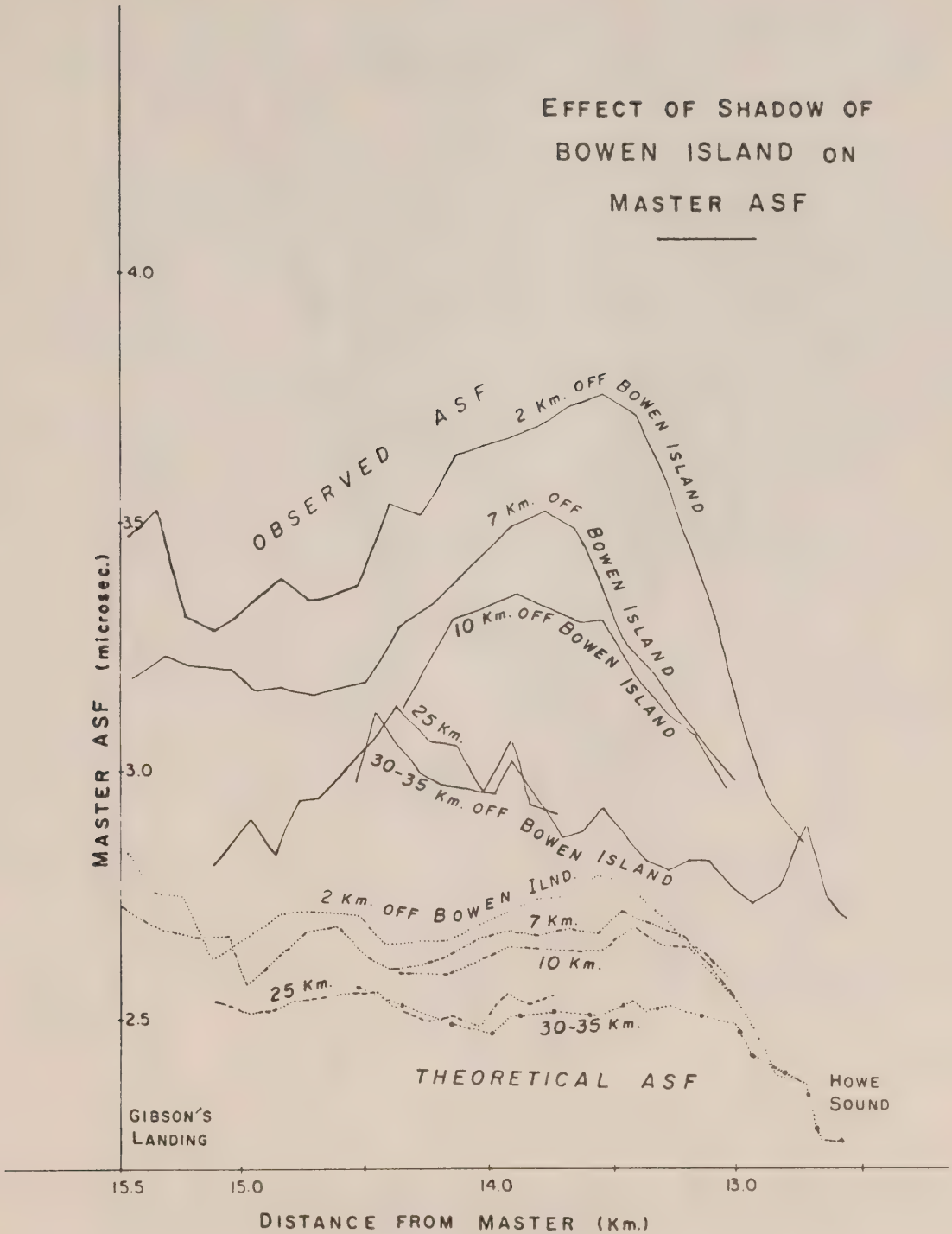

EFFECT OF SHADOW OF
BOWEN ISLAND ON
MASTER ASF
4.0
3.5
3.0
2.5
MASTER ASF (microsec.)
OBSERVED ASF
2 Km. OFF BOWEN ISLAND
7 Km. OFF BOWEN ISLAND
10 Km. OFF BOWEN ISLAND
25 Km.
30-35 Km. OFF BOWEN ISLAND
2 Km. OFF BOWEN ILND.
7 Km.
10 Km.
25 Km.
30-35 Km.
THEORETICAL ASF
HOWE SOUND
GIBSON'S LANDING
15.5
15.0
14.0
13.0
DISTANCE FROM MASTER (Km.)

Figure 16.

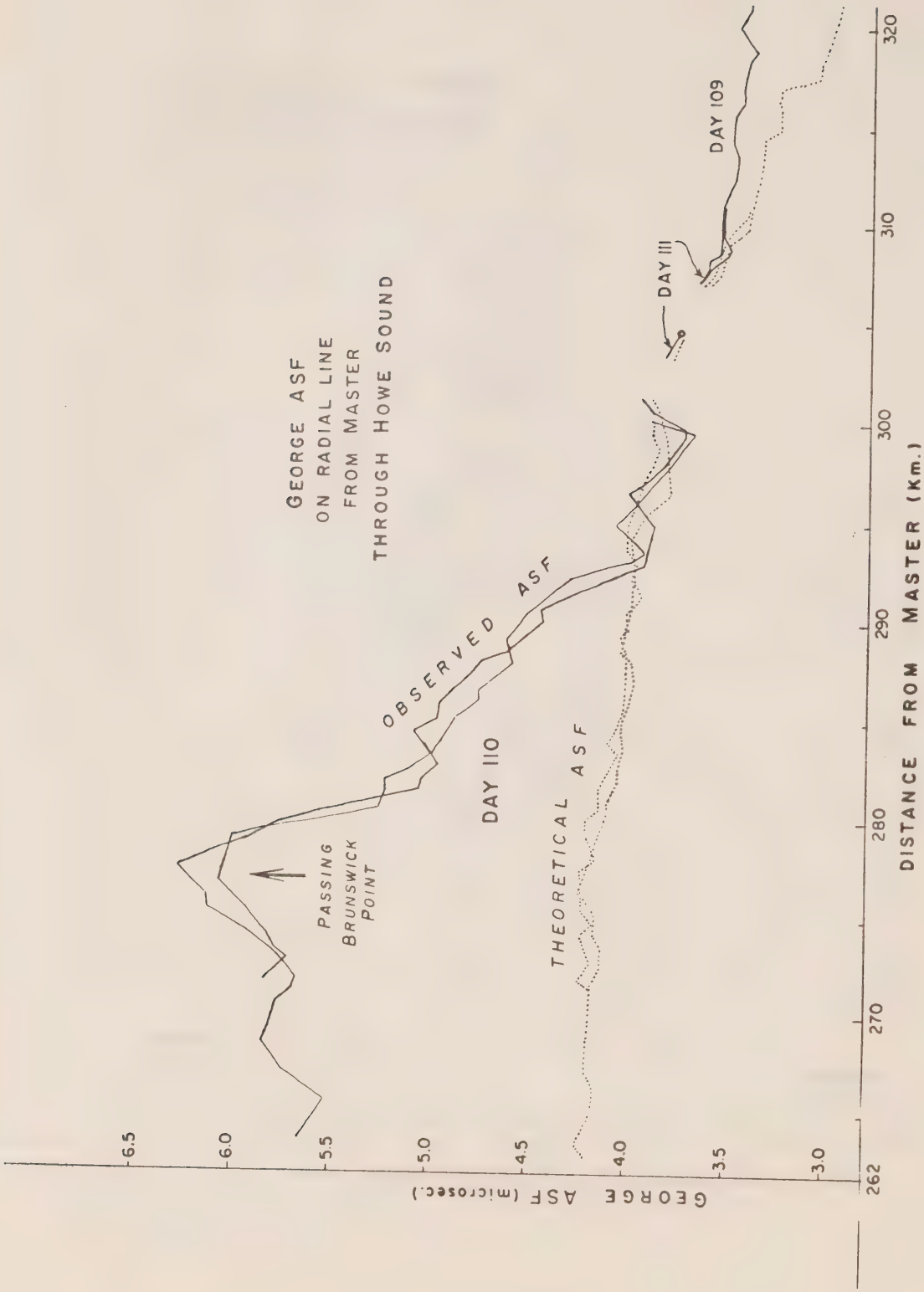

GEORGE ASF
ON RADIAL LINE
FROM MASTER
THROUGH HOWE SOUND
OBSERVED ASF
THEORETICAL ASF
DAY 110
DAY 109
DAY 111
PASSING
BRUNSWICK
POINT
GEORGE ASF (microsec.)
DISTANCE FROM MASTER (Km.)
6.5
6.0
5.5
5.0
4.5
4.0
3.5
3.0
262
270
280
290
300
310
320

Figure 17.

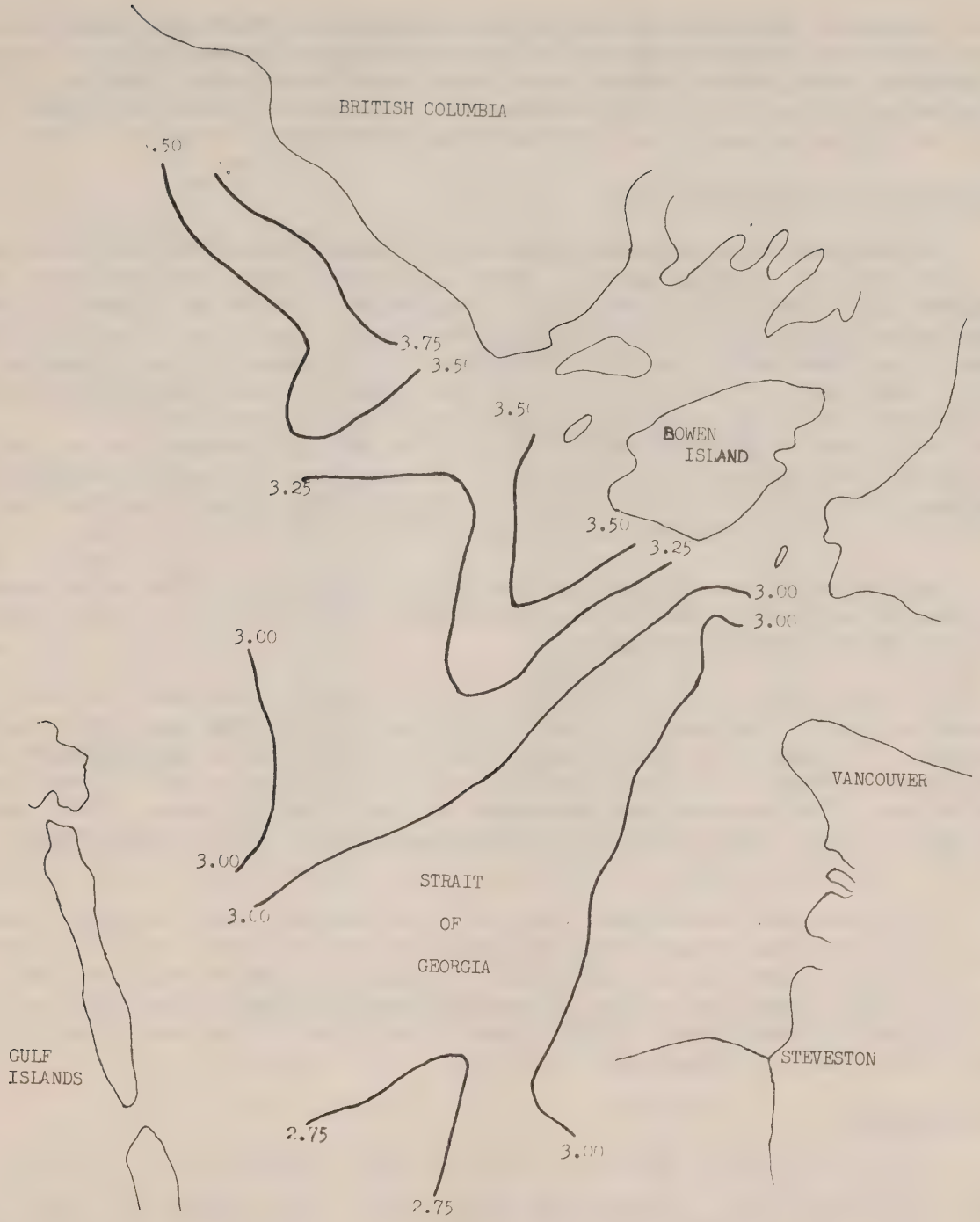


Figure 18.

GEORGIA STRAIT
A.S.F. CONTOURS FOR THE MASTER

Therefore, the close proximity to a mountainous shore does have an effect on the A.S.F. that is not predicted with Millington's Method. For surveying accuracies, this effect extends 10 km from shore; for normal position determination on a chart, the effect extends only 2 km. Thus chart lattices should continue to be cut back from shore a distance of 3 km.

Reliability of Confined Waters

The sub-section on proximity to shore analyzed the effect on the phase of the signal in confined waters. There are these other considerations to account for: gain, cycle, ability to acquire and ability to track. The one area where there is data in confined waters and in nearby open water is Howe Sound. The gain number (which corresponds to the amount of amplification a signal requires) for the Master T.O.A. does not increase from 70 (in Strait of Georgia) until the very end of Howe Sound when it increases to 81. Similarly there is no substantial increase in the gain number for the radials off Pachena and Carmanah Points on Days 105 and 106. The only observable increase in gain is in the George T.O.A. while going up and down Howe Sound. The gain is 60 in Strait of Georgia but as high as 74 in Howe Sound.

The cycle number (which is a function of the shape of the pulse) does not appear, at least from the Howe Sound data, to be affected by the proximity to shore or confined waters.

The real proof in the reliability of the signals came when the ship turned around at the head of Howe Sound. The receiver had been tracking four signals: Williams Lake (5990 Master), George (5990-Y), Fallon (9940 Master) and George (9940-W). It lost the 3rd cycle tracking point on Williams Lake and Fallon. The receiver was commanded to stop tracking George (9940) because of coding error. The receiver also detected skywave on Williams Lake and Fallon.

It may be just coincidence that all this happened when the ship turned but it is more likely that there is signal distortion within the inlet and if signals don't arrive as predicted by the heavily damped receiver then various errors start occurring. Therefore areas of confined waters, such as inlets, bays, channels and island groups should not be latticed because of poor signal quality and phase distortion.

Repeatability

During the survey, there were various times that the ship crossed or reran previous lines. The computed A.S.F.'s for these repeated fixes correspond to the initial readings about ± 0.06 microseconds. That corresponds to 20 metres in the range measurement, which in turn corresponds roughly to 50 metres in a position line determined by hyperbolic readings depending on geometry. Fifty metres is a usual advertised repeatability of position with Loran-C.

Accuracy

The general accuracy of the Loran-C is another consideration. Within a limited area it should be possible to assume that observed T.O.A.'s or T.D.'s have a constant error in timing. With calibration this constant error could be determined and applied to all other observed readings. Then the only thing

left is a random error. The primary phase lag (atmosphere), secondary phase lag (all seawater path), computed A.S.F. (land-sea combination), clock synchronization (T.O.A. measurements only) and now this timing error have all been accounted for. Therefore in this survey the value of this random error by areas is determined from the data in Table 7.

Table 7

CLOCK SYNCHRONIZATION AND TOTAL RANDOM ERROR (by area for 5990)

Day	Place	Transmitter	Clock Synch & Timing Error microseconds	Standard Deviation microsec.	Number of Fixes
104	Off Victoria	Master	12310.22	0.110	14
		George	12309.27	0.092	14
105-6	Off Carmanah	Master	12310.52	0.206	160
		George	12309.05	0.193	160
108	Gulf Islands	Master	12310.40	0.247	78
		George	12308.92	0.243	78
109-111	Str. of Georgia	Master	12310.45	0.178	273
		Shoal Cove	12308.58	0.195	28
		George	12308.78	0.204	288
110	Howe Sound	Master	12310.45	0.281	72
		George	12309.38	0.664	72

The clock synchronization values determined by T.O.A. loops to the transmitters produced clock synchronizations which are given in Table 8.

Table 8

CLOCK SYNCHRONIZATION VALUES (5990)

Master	12309.90
Shoal Cove	12308.94
George	12308.43

(See Reference #1 for determination and comments on accuracy of clock synchronization constants.) The difference between these clock synchronization plus timing errors and the clock synchronizations from the T.O.A. loops is the local timing error for each area for each T.O.A. The standard deviation reflects the statistical sum of the accuracy in position as well as in the Loran-C. This accounts for larger standard deviations on Days 108 and 110 (Master). Day 110 (George) can only be accounted for by the perturbations caused by proximity to shore.

To remove the positioning accuracy to obtain the repeatability of the Loran-C is the next step. Thus since the calibration and Loran-C positions

are independent

$$S_T^2 = S_P^2 + S_L^2$$

and $$S_L = \sqrt{S_T^2 - S_P^2}$$

where: S_L = standard deviation of Loran-C T.O.A.

S_T = standard deviation of Total

S_P = standard deviation of Position.

Table 8

RANDOM ERRORS - LORAN-C T.O.A.'s (5990)

Day	Transmitter	S_P Metres	S_T Metres	S_L Metres	
104	Master	10	32.9	31.4	
	George	10	27.6	25.7	
105-6	Master	6	61.7	61.4	
	George	6	57.8	57.5	
108	Master	30	74.0	67.6	
	George	30	72.8	66.3	60.8 ± 5.1
109-11	Master	6	53.3	53.0	
	Shoal Cove	6	58.4	58.1	
	George	6	61.1	60.8	
110	Master	30	84.2	78.7	
	George	30	198.9	196.6	

Day 104 should not be considered as a separate area because there were only 14 fixes on that day. The work in Howe Sound is obviously affected by the systematic error of being close to shore. This is particularly true for the George T.O.A.'s. The mean of the other seven standard deviations is 60.8 metres.

Other tests have arrived at slightly different values for the random error of Loran-C:

Eaton & Grant (1972) 80 metres (Reference #2).

Since these determinations of the random error of the Loran-C are all of the same magnitude, a representative value can be used in error budgeting for other surveys. One major use of Loran-C could be as a system for positioning hydrographic surveys.

If in T.O.A. mode of operation, the T.O.A.'s were corrected for primary, secondary, A.S.F., clock synchronization and calibrated timing error for the area, the only thing remaining would be the random error. The quality of the

position fixing is a function of the geometry.

$$p = r \csc \left(\frac{\theta}{2}\right) \text{ for } \theta < 90°$$

$$p = r \sec \left(\frac{\theta}{2}\right) \text{ for } \theta > 90°$$

The best case is $\theta = 90°$ where a Loran-C position based on two ranges would have an error of ± 85 m. It should be noted that these statements are at the one sigma confidence level.

The hyperbolic (T.D.) mode the time differences should, theoretically, be corrected for primary, secondary, ASF on each transmission path, and for a calibrated timing error for the area. The random error of a Time Difference is equal to:

$$S_{TD} = \sqrt{S^2_M + S^2_S}$$

or $$S_{TD} = \sqrt{2} \times S_L$$

if $$S_M = S_M$$

and the covariance of the master and secondary observed errors is small.

Where S_{TD} = random error of T.D.
S_M = random error of Master
S_S = random error of Secondary
S_L = random error of Loran-C.

Therefore, the random error of the Time Difference is $\sqrt{2} \times 60 = 85$ metres. The position fix accuracy is again a function of the geometry. In the best case the position fixing error is 1.85 times the T.D. error or 157 metres. Again this figure is at the one sigma confidence level.

DATA ANALYSIS - U.S. WEST COAST CHAIN

Clockrate

Time of Arrival (T.O.A.) measurements have to be corrected for the clock drift between the cesium standards that control the transmitters and the receiver. For each chain, the clock drift is different since the masters are controlled by different cesium standards.

Table 9
SHORT TERM CLOCK RATES (9940)

Clock Rate at	Day	Hours	Fallon	George
Patricia Bay	108	-		
Nanaimo	109	14	-0.0383 ± 0.0263	-0.0269 ± 0.0142
Gibsons Landing	110	11½	0.1729 ± 0.0331	0.0647 ± 0.0304
Vancouver	111	14	-	0.0261 ± 0.0115
Vancouver	112	8½	-	0.3705 ± 0.0228
Patricia Bay	112	5	0.5641 ± 0.0884	-0.0668 ± 0.0381

A long term clock rate can be determined because the ship returned to the same berth at Patricia Bay. Just prior to leaving Gibsons Landing, the system went down and when it started up again, the T.O.A.'s had increased by 25496.002 microseconds, although the ship had not moved.

Table 10

LONG TERM CLOCK RATES (9940)

At Patricia Bay	Fallon	George
Day 112	32744.097	44042.561
Shift	25496.002	25496.002
	7248.095	18546.559
Day 108	7247.532	18545.974
	.563	.585

Duration = 4.27777 days

Clock Rate 0.1317 microseconds/day 0.1369 microseconds/day

Average Clock rate = 0.1343 microseconds/day.

CLOCK SYNCHRONIZATION

Since there were no T.O.A. loops made to the Fallon and Middletown transmitters, the only clock synchronization that can be computed is to the George transmitter. The other two, Fallon and Middletown, will have to be assumed using the published emission delay relationship.

Table 11

CLOCK SYNCHRONIZATION VALUES (9940)

Ship @ day 108.4027	= 18545.974 microseconds	
Clockrate correction	.071	
Ship @ day 107.875	18545.903	
Eccentric correction to BOLE	.128	(See Ref. #1)
BOLE @ day 107.875	18545.775	
Published Emission Delay	13796.970	
Obs. T.O.A. BOLE	4748.805	
True T.O.A. BOLE	1101.550	(See Ref. #1)
Clock synchronization	3647.255	

Therefore all T.O.A. measurements are reduced by; 1) 0.1343 microseconds/day back to day 107.875, 2) a clock synchronization of 3647.26 before day 110.67 and 29143.26 thereafter, and the applicable emission delay to get the corrected T.O.A. that is listed in the Appendix.

Monitor Corrections

Since the chain zeroing corrections were introduced into the chain at 0000 Z April 15, 1977 (day 105), there is no substantial change necessary to

the observations.

Turning - The disturbing effect of the ship on the Loran-C T.O.A.'s was noted in the inshore work with Vector on the Canadian Chain (see page 8). The same data points were disregarded for this reason.

Other Bad Data - Due to extreme range from both Middletown and Fallon, there were data points that were rejected for such reasons as: incorrect cycle, high gain or high noise.

The breakdown of data points is given in Table 12.

Table 12

DATA REJECTION STATISTICS (9940)

	Good	Ship Turning	Rejected	Not Observed
Fallon	126	13	3	13
George	130	16	9	0
Middletown	98	7	1	49

A.S.F. Shift

In the work with the Canadian Chain, an offset between the observed A.S.F. and computed A.S.F. was noted (see page 13). This was defined by areas and was attributed to an unknown in the clock synchronization. This same effect is noted in the U.S. West Coast Chain data. Again it can be attributed to an unknown in the clock synchronization, particularly since the clock synchronization was only determined for George and then inferred for Fallon and Middletown.

If one takes each individual observed T.O.A. and corrects for clock rate, emission delay and all-seawater T.O.A., the remainder is the sum of the clock synchronization and A.S.F. If the computed A.S.F., using Millington's Method, is then subtracted from that, the remainder is the observed individual clock synchronization.

In the Straits of Georgia area where the computed and observed A.S.F.'s are very similar curves, the averaged observed clock synchronizations are given in Table 13.

Table 13

AVERAGE OBSERVED CLOCK SYNCHRONIZATION (9940)

	Aver. Obs. Clock Synchronization	Assumed Clock Synchronization	Diff.	Number of Fixes
Fallon	3647.581 ± 0.317	3647.26	0.32	46
George	3647.583 ± 0.185	3647.26	0.32	49
Middletown	3648.652 ± 0.103	3647.26	1.39	25

The large difference for Middletown is unexplained. Different land conductivities were tried, but with no improvement. The only reasonable explanation is the fact that the Middletown transmitter was calibrated to cover the area from San Diego to Cape Flattery where there would be minimal over land path. In the Strait of Georgia there is over 1000 km of land before the signal reaches the Strait.

The accuracy of the Loran-C can be determined from $S_L = \sqrt{S_T^2 - S_P^2}$,

where: S_L = standard deviation of Loran-C

S_T = standard deviation of Total

S_P = standard deviation of Position.

Table 14

RANDOM ERRORS - LORAN-C T.O.A.'s (9940)

Day	Transmitter	S_P	S_T	S_L
109-111	Fallon	6	95.0	94.8 metres
	George	6	55.4	55.1
	Middletown	6	30.9	30.3

The accuracy of the George T.O.A. is very consistent with the values determined with the Canadian Chain. The Fallon T.O.A. could be suffering from high noise at the extreme range (note the high gain values in the Appendix). The Middletown data probably looks good because of the small data sample. Knowing that there are only 25 good data points out of a possible 49 points (within the Straits of Georgia), is certainly one indication of a weak signal. Also note the high gain on these good data points.

Cross Rate Correction

Since the receiver was tracking the T.O.A.'s of George on both the Canadian (5990) and the U.S. (9940) West Coast Chains, the same reduced T.O.A. should have been observed. Or conversely, since we were primarily wanting to measure A.S.F., the difference in observed A.S.F., the difference in observed A.S.F.'s should be zero. Hypothesis: $A.S.F._{5990} - A.S.F._{9940} = 0$.

Using only the 130 identical data points:

average $A.S.F._{5990} = 3.6675 \pm 0.4322$ microseconds

average $A.S.F._{9940} = 3.7064 \pm 0.0535$ microseconds.

Test #1. Is the difference significant?

Student's $t = \frac{\bar{x} - 0}{s/\sqrt{n}} = \frac{0.0389}{0.0535/\sqrt{130}} = 8.29$

$t_{.025,129} = 1.982$

Therefore the difference is significant.

Test #2. Are the A.S.F. standard deviations significantly different?

$$F = \frac{\sigma_1^2}{\sigma_2^2} = \frac{0.4322^2}{0.4251^2} = 1.034$$

$$F_{.025\ (129,\ 129)} = 1.41$$

Therefore, the standard deviations are not significantly different.

Test #3. What is the correlation coefficient?

$$\Delta r = x - y$$
$$\text{var}(x) = 0.4322^2 = 0.1868$$
$$\text{var}(y) = 0.4251^2 = 0.1807$$
$$\text{var}(\Delta r) = 0.0535^2 = 0.00286$$
$$\text{covar}(x,y) = [\text{var}(x) + \text{var}(y) - \text{var}(\Delta r)]/2$$
$$= 0.1823$$

The correlation coefficient is:

$$\rho xy = \frac{\text{cov}(x,y)}{\sqrt{\text{var}(x).\text{var}(y)}} = 0.9923$$

The observed A.S.F.'s are very highly correlated.

Therefore, once the difference between the two A.S.F.'s can be computed, the A.S.F., and hence T.O.A., on one rate could be computed from the other A.S.F. (or T.O.A.) because of the high correlation and with the same accuracy. The explanation of the difference between the two sets of A.S.F.'s is unknown since the reduction method was identical.

Repeatability

The repeatability of Loran-C can be assessed by looking at the standard deviation of the difference in the A.S.F.'s (and hence T.O.A.'s). It is ± 0.0535 microseconds or 16 metres which corresponds very closely with the ± 0.06 microseconds determined on page 13.

CONCLUSIONS

1. The absolute accuracy (the ability to compute the true position from observations) is ± 60 metres in T.O.A. position line measurements and ± 85 metres in T.D. position measurements. The position accuracy is a function of geometry. These figures are stated for one sigma confidence intervals.

2. Repeatability (the ability to return to the same readings and be within a specified distance of the original point) does seem to be consistent with the advertised 50 metres.

3. Radial lines do show the phase recovery phenomenon that was predicted. In fact, the near shore effect is much larger than computed. The physical rationale that explains phase recovery is best explained in Figure 19. Millington's Method does predict this phase recovery except very close in to shore where there appears to be an additional terrain effect.

4. There appears to be a terrain effect that is significant within the first 10 kilometres from shore. At present, this appears as part of the phase recovery effect of the previous paragraph. If we can verify the phase recovery effect on low terrain (e.g. Nova Scotia) with no terrain effect being exhibited, then we can conclude that there is terrain effect in British Columbia.

5. Loran-C signals from the West Canadian Chain are not reliable close to shore or in confined waters of inlets, channels, bays, etc. The phase distortion would cause considerable lattice warping, and the acquiring and/or tracking of the signals would be susceptible to errors that would be hazardous to safe navigation. Therefore, charts should not be latticed in confined waters or within 3 km of shore.

6. With calibration within the survey area, Loran-C can be used as the positioning system. In T.O.A. mode, 1:150,000 or smaller, field sheets could be surveyed by Loran-C and in hyperbolic (T.D.) mode 1:250,000 or smaller. In both cases the best possible geometry has been assumed. Specific field sheets would have to be checked whether Loran-C is acceptable because of the geometry of the transmitting stations and field sheet locations.

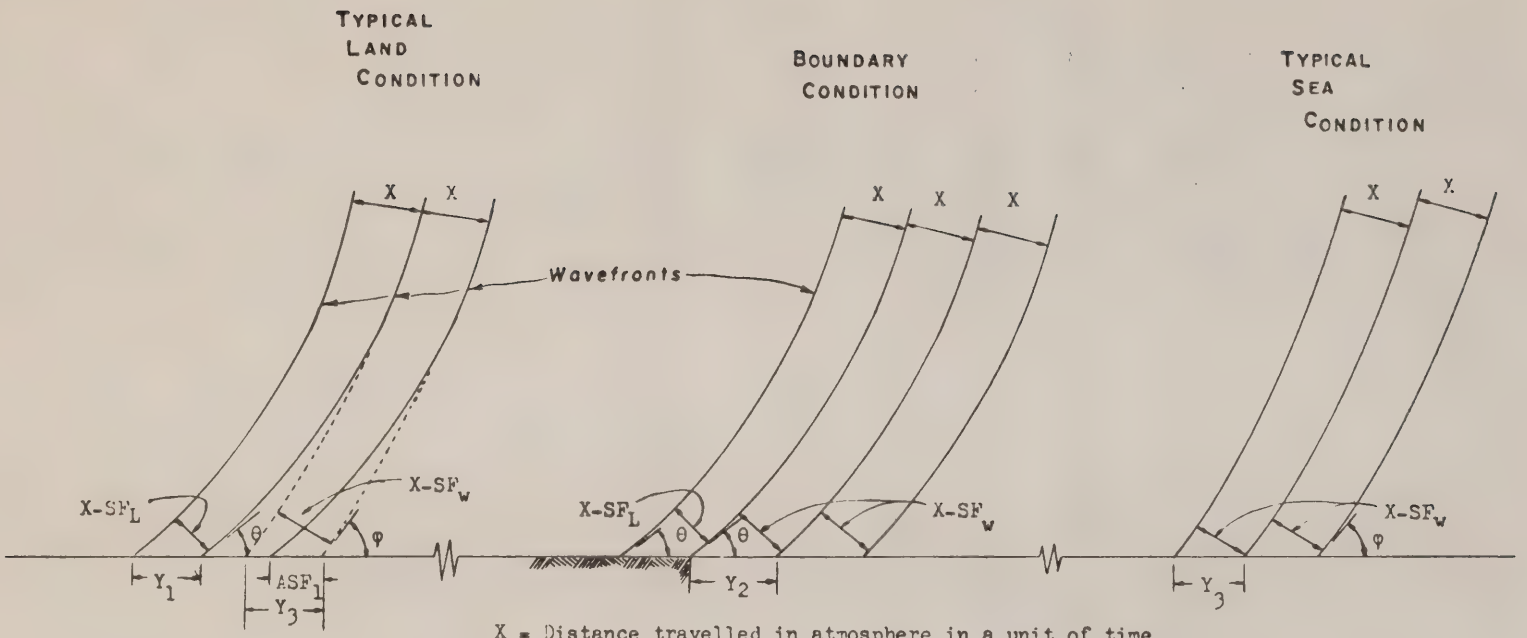
7. The U.S.C.G. monitor system is much more heavily damped than the time constant (TMCN) leads one to believe. This is a warning that other receivers might have damping constants that also affect the results after changes in direction or speed.

8. Position fixing for accurate, inshore calibration of a highly repeatable system has to be accurate. Plotted and scaled sextant fixes don't fulfill the requirement. Sextant fixes that can be computed are only slightly better. Positions that have redundant observations allow for check computations and/or a least square fit. Using least squares, unusual combinations of observations can be accommodated so long as the observations produce two or more lines of position that intersect.

9. As the transmission from Shoal Cove cannot be reliably received in Juan de Fuca and Georgia Straits, charts in this area will not require latticing.

10. Gain numbers on the Fallon and Middleton transmissions were sufficiently high to make correct cycle identification in the Straits of Georgia unreliable. The geometry of the stations also precludes the latticing of charts in this area with the U.S. West Coast Chain (9940).

11. An inexplicably large difference occurred between the average clock synchronization and assumed clock synchronization (or conversely between



X = Distance travelled in atmosphere in a unit of time
SF_w = Secondary phase lag for water
SF_L = Secondary phase lag for land

$Y_1 = (X\text{-}SF_L) \csc \theta$

$ASF_1 = Y_3 - Y_1$

$Y_2 = (X\text{-}SF_w) \csc \theta$

since $SF_w < SF_L$

$Y_2 > Y_1$

$Y_3 = (X\text{-}SF_w) \csc \varphi$

since $\theta < \varphi < 90°$

$Y_2 > Y_3$

thus $Y_2\text{-}Y_3$ = phase recovery

Figure 19.

PHASE RECOVERY

observed and calculated A.S.F.) on the Middletown transmissions.

12. A double-rated station will produce highly correlated T.O.A. measurements, albeit with a small systematic shift between the two T.O.A.'s, that can be used to improve T.O.A. surveys by reducing the possiblity of bad T.O.A. data being undetected.

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APPENDIX I

WEST CANADIAN CHAIN

EXPLANATION

Line 1 — Julian Day Number, Greenwich Mean Time (GMT), Method of Position Fixing, Latitude and Longitude (degrees, minutes and seconds)

Line 4 — (Williams Lake)

Line 5 — (Shoal Cove)

Line 6 — (George, Wash.)

CYCLE — Tracking point of receiver on cycle within pulse

GAIN — Gain number from receiver - indirectly related to signal strength

OBS TOA — Actual observed values of Time of Arrival from receiver

CLOCK RATE — Clock rate correction that has to be subtracted from the observed value

CLOCK SYNCH — Clock synchronization constant that has to be subtracted from the observed value

EMMISSION DELAY — Summation of Coding Delay + Baseline Travel Time (for an all seawater path) that has to be subtracted from the observed value

CORR TOA — Corrected Time of Arrival = OBS TOA - CLOCK RATE - CLOCK SYNCH - EMISSION DELAY

CALC TOA — Calculated TOA based on an all seawater path between transmitter and receiver

OBS ASF — Observed Additional Secondary Factor (or Correction) (ASF or ASC) = CORR TOA - CALC TOA

CALC ASF — Calculated ASF based on Millington's Method (over smooth earth) using the following land conductivities:

Williams Lake	0.0013 mho/m
Shoal Cove	0.0010 mho/m
George	0.0006 mho/m.

MON. CORR — Change in the Time Difference (T.D.) at Monitor sites between date of survey and commissioning of chain

OBS T.D. — Observed hyperbolic value (Time Difference) = OBS TOA (Secondary) - OBS TOA (Master) + MON. CORR (as would be observed after chain commissioning)

CALC T.D. — Calculated time Difference for an all seawater path = CALC TOA (Secondary) - CALC TOA (Master) + EMISSION DELAY.

T — Tracking Error on this TOA

S — Tracking Skywave

[ ] — TOA's not yet recovered from a change of course

104 1954 SEXTANT 48 23 18.887 123 18 28.533

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.15	82	45637.24	.19	44286.66	0.00	1350.39	1347.35	3.04	2.66			
0.00	0	0.00	.19	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.11	68	14335.36	.19	44285.19	28927.37	1022.61	1019.10	3.51	2.62	0.95	28599.07	28599.12

104 1956 SEXTANT 48 23 24.154 123 18 56.389

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.14	81	45636.91	.19	44286.66	0.00	1350.06	1347.12	2.94	2.70			
0.00	0	0.00	.19	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.14	69	14337.23	.19	44285.19	28927.37	1024.48	1021.05	3.43	2.61	0.95	28601.27	28601.30

104 20 0 SEXTANT 48 23 36.087 123 19 49.113

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.12	82	45636.43	.19	44286.66	0.00	1349.58	1346.50	3.08	2.82			
0.00	0	0.00	.19	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.16	68	14341.10	.19	44285.19	28927.37	1028.35	1024.83	3.52	2.61	0.95	28605.62	28605.70

104 20 2 SEXTANT 48 23 42.446 123 20 16.551

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.08	82	45636.16	.19	44286.66	0.00	1349.31	1346.16	3.15	2.81			
0.00	0	0.00	.19	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.14	68	14343.09	.19	44285.19	28927.37	1030.34	1026.80	3.54	2.61	0.95	28607.88	28608.01

104 20 8 SEXTANT 48 23 59.286 123 21 41.737

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.02	82	45635.34	.20	44286.66	0.00	1348.48	1345.42	3.06	2.87			
0.00	0	0.00	.20	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.20	68	14349.08	.20	44285.19	28927.37	1036.32	1032.79	3.53	2.59	0.95	28614.69	28614.74

104 2012 SEXTANT 48 23 54.047 123 22 40.994

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.11	81	45636.56	.20	44286.66	0.00	1349.70	1346.65	3.05	2.87			
0.00	0	0.00	.20	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.21	68	14352.45	.20	44285.19	28927.37	1039.69	1036.16	3.53	2.64	0.95	28616.84	28616.88

104 2014 SEXTANT 48 23 52.801 123 23 13.197

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.11	81	45637.11	.20	44286.66	0.00	1350.25	1347.16	3.09	2.88			
0.00	0	0.00	.20	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.14	68	14354.29	.20	44285.19	28927.37	1041.53	1038.07	3.46	2.63	0.95	28618.13	28618.28

104 2016 SEXTANT 48 23 57.837 123 23 43.478

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.10	81	45637.04	.20	44286.66	0.00	1350.18	1347.02	3.16	2.82			
0.00	0	0.00	.20	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.19	69	14356.42	.20	44285.19	28927.37	1043.66	1040.15	3.51	2.63	0.95	28620.33	28620.50

104 2018 SEXTANT 48 24 9.001 123 24 10.056

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.08	82	45636.12	.20	44286.66	0.00	1349.26	1346.20	3.06	2.89			
0.00	0	0.00	.20	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.14	69	14358.60	.20	44285.19	28927.37	1045.84	1042.30	3.54	2.63	0.95	28623.43	28623.47

104 22 8 SEXTANT 48 23 34.209 123 27 9.044

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.03	82	45641.92	.22	44286.66	0.00	1355.04	1351.95	3.09	2.70			
0.00	0	0.00	.22	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.12	67	14367.99	.22	44285.19	28927.37	1055.21	1051.65	3.56	2.70	0.95	28627.02	28627.07

104 2212 SEXTANT 48 22 53.948 123 27 25.764

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.08	81	45646.21	.22	44286.66	0.00	1359.33	1356.25	3.08	2.69			
0.00	0	0.00	.22	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.13	68	14367.15	.22	44285.19	28927.37	1054.37	1050.82	3.55	2.72	0.95	28621.89	28621.94

104 2222 SEXTANT 48 21 25.461 123 28 54.241

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.10	81	45656.42	.22	44286.66	0.00	1369.54	1366.34	3.20	2.71			
0.00	0	0.00	.22	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.08	67	14368.53	.22	44285.19	28927.37	1055.80	1052.28	3.52	2.79	0.95	28613.11	28613.31

104 2226 SEXTANT 48 20 49.012 123 29 31.516

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.05	81	45660.60	.22	44286.66	0.00	1373.72	1370.52	3.20	2.73			
0.00	0	0.00	.22	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.10	67	14369.23	.22	44285.19	28927.37	1056.50	1052.97	3.53	2.81	0.95	28609.63	28609.82

104 2230 SEXTANT 48 20 11.953 123 30 11.388

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.01	81	45664.91	.22	44286.66	0.00	1378.03	1374.79	3.24	2.81			
0.00	0	0.00	.22	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.05	67	14370.02	.22	44285.19	28927.37	1057.24	1053.81	3.43	2.81	0.95	28606.06	28606.39

105 1912 TRISPON 48 27 14.148 124 51 27.270

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.31	88	45723.21	.42	44286.66	0.00	1436.13	1432.86	3.27	2.91			
0.00	0	0.00	.42	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.35	72	14696.46	.42	44285.19	28927.37	1383.48	1379.83	3.65	3.03	0.95	28874.20	28874.34

105 1914 TRISPON 48 26 56.762 124 51 37.644

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.32	87	45725.13	.42	44286.66	0.00	1438.05	1434.78	3.27	2.90			
0.00	0	0.00	.42	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.37	72	14696.59	.42	44285.19	28927.37	1383.61	1379.89	3.72	3.06	0.95	28872.41	28872.48

105 1916 TRISPON 48 26 39.059 124 51 48.953

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.28	88	45727.07	.42	44286.66	0.00	1439.99	1436.77	3.22	2.90			
0.00	0	0.00	.42	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.35	72	14696.73	.42	44285.19	28927.37	1383.72	1379.99	3.73	3.07	0.95	28870.58	28870.59

105 1918 TRISPON 48 26 22.471 124 51 56.660

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.29	88	45729.05	.42	44286.66	0.00	1441.98	1438.55	3.43	2.89			
0.00	0	0.00	.42	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.29	72	14696.76	.42	44285.19	28927.37	1383.78	1379.91	3.87	3.08	0.95	28868.65	28868.73

105 1920 TRISPON 48 26 4.564 124 52 5.943

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.33	88	45730.93	.42	44286.66	0.00	1443.85	1440.50	3.35	2.88			
0.00	0	0.00	.42	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.31	72	14696.78	.42	44285.19	28927.37	1383.80	1379.89	3.91	3.26	0.95	28866.80	28866.76

105 1924 TRISPON 48 25 31.589 124 52 25.197

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.34	87	45734.51	.42	44286.66	0.00	1447.43	1444.14	3.29	2.88			
0.00	0	0.00	.42	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.29	72	14696.96	.42	44285.19	28927.37	1383.98	1379.99	3.99	3.46	0.95	28863.40	28863.22

105 1926 TRISPON 48 25 14.631 124 52 33.901

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.35	87	45736.32	.42	44286.66	0.00	1449.24	1445.98	3.26	2.88			
0.00	0	0.00	.42	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.29	71	14696.98	.42	44285.19	28927.37	1384.00	1379.97	4.03	3.55	0.95	28861.61	28861.36

105 1928 TRISPON 48 24 57.434 124 52 42.911

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.32	87	45738.23	.42	44286.66	0.00	1451.15	1447.86	3.29	2.87			
0.00	0	0.00	.42	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.29	71	14697.02	.42	44285.19	28927.37	1384.04	1379.96	4.08	3.64	0.95	28859.74	28859.47

105 1930 TRISPON 48 24 40.181 124 52 52.940

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.32	87	45740.20	.42	44286.66	0.00	1453.12	1449.76	3.36	2.87			
0.00	0	0.00	.42	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.34	71	14697.14	.42	44285.19	28927.37	1384.16	1380.02	4.14	3.80	0.95	28857.89	28857.63

105 1932 TRISPON 48 24 22.459 124 53 1.961

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.33	87	45742.08	.42	44286.66	0.00	1455.00	1451.69	3.31	2.86			
0.00	0	0.00	.42	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.28	71	14697.17	.42	44285.19	28927.37	1384.19	1380.00	4.19	3.79	0.95	28856.04	28855.68

105 1934 TRISPON 48 24 4.514 124 53 9.917

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.33	87	45743.96	.42	44286.66	0.00	1456.88	1453.60	3.28	2.86			
0.00	0	0.00	.42	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.25	71	14697.14	.42	44285.19	28927.37	1384.16	1379.91	4.25	3.78	0.95	28854.13	28853.68

105 1936 TRISPON 48 23 47.549 124 53 18.200

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.34	87	45745.76	.42	44286.66	0.00	1458.68	1455.44	3.24	2.86			
0.00	0	0.00	.42	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.28	71	14697.17	.42	44285.19	28927.37	1384.19	1379.87	4.32	3.80	0.95	28852.36	28851.80

105 1938 TRISPON 48 23 30.437 124 53 26.396

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.33	87	45747.63	.42	44286.66	0.00	1460.55	1457.28	3.27	2.85			
0.00	0	0.00	.42	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.33	71	14697.17	.42	44285.19	28927.37	1384.19	1379.83	4.36	3.78	0.95	28850.49	28849.92

105 1940 TRISPON 48 23 14.012 124 53 35.350

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.29	87	45749.50	.42	44286.66	0.00	1462.42	1459.08	3.34	2.85			
0.00	0	0.00	.42	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.25	71	14697.25	.42	44285.19	28927.37	1384.27	1379.86	4.41	3.78	0.95	28848.70	28848.15

105 1942 TRISPON 48 22 57.269 124 53 44.074

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.28	87	45751.33	.42	44286.66	0.00	1464.25	1460.90	3.35	2.85			
0.00	0	0.00	.42	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.21	73	14697.32	.42	44285.19	28927.37	1384.34	1379.87	4.47	3.85	0.95	28846.94	28846.34

105 1944 TRISPON 48 22 41.239 124 53 54.082

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.31	87	45753.05	.42	44286.66	0.00	1465.97	1462.69	3.28	2.85			
0.00	0	0.00	.42	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.25	72	14697.48	.42	44285.19	28927.37	1384.50	1379.99	4.51	3.87	0.95	28845.38	28844.67

105 1946 TRISPON 48 22 24.863 124 54 4.285

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.30	87	45754.87	.43	44286.66	0.00	1467.78	1464.51	3.27	2.84			
0.00	0	0.00	.43	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.28	71	14697.62	.43	44285.19	28927.37	1384.63	1380.10	4.53	3.87	0.95	28843.70	28842.96

105 1948 TRISPON 48 22 8.513 124 54 14.992

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.32	87	45756.64	.43	44286.66	0.00	1469.55	1466.35	3.20	2.84			
0.00	0	0.00	.43	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.25	72	14697.81	.43	44285.19	28927.37	1384.82	1380.26	4.56	3.85	0.95	28842.12	28841.28

105 1950 TRISPON 48 21 52.413 124 54 25.873

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.32	87	45758.46	.43	44286.66	0.00	1471.37	1468.17	3.20	2.83			
0.00	0	0.00	.43	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.26	71	14698.03	.43	44285.19	28927.37	1385.04	1380.44	4.60	3.83	0.95	28840.52	28839.64

105 1952 TRISPON 48 21 37.032 124 54 36.948

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.29	87	45760.30	.43	44286.66	0.00	1473.21	1469.93	3.28	2.83			
0.00	0	0.00	.43	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.28	71	14698.28	.43	44285.19	28927.37	1385.29	1380.66	4.63	3.83	0.95	28838.93	28838.10

105 1954 TRISPON 48 21 21.158 124 54 48.421

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.30	87	45762.12	.43	44286.66	0.00	1475.03	1471.74	3.29	2.83			
0.00	0	0.00	.43	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.28	72	14698.55	.43	44285.19	28927.37	1385.56	1380.89	4.67	3.84	0.95	28837.38	28836.52

105 1956 TRISPON 48 21 5.339 124 54 59.635

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.35	87	45763.94	.43	44286.66	0.00	1476.85	1473.55	3.30	2.83			
0.00	0	0.00	.43	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.27	72	14698.81	.43	44285.19	28927.37	1385.82	1381.11	4.71	3.84	0.95	28835.82	28834.93

105 1958 TRISPON 48 20 49.684 124 55 11.172

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.36	87	45765.57	.43	44286.66	0.00	1478.48	1475.35	3.13	2.82			
0.00	0	0.00	.43	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.25	72	14699.07	.43	44285.19	28927.37	1386.08	1381.35	4.73	3.80	0.95	28834.45	28833.37

105 20 0 TRISPON 48 20 34.539 124 55 21.656

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.38	87	45767.31	.43	44286.66	0.00	1480.22	1477.07	3.15	2.82			
0.00	0	0.00	.43	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.25	72	14699.31	.43	44285.19	28927.37	1386.32	1381.55	4.77	3.80	0.95	28832.95	28831.85

105 20 2 TRISPON 48 20 18.565 124 55 31.831

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.38	87	45769.09	.43	44286.66	0.00	1482.00	1478.86	3.14	2.82			
0.00	0	0.00	.43	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.28	72	14699.53	.43	44285.19	28927.37	1386.54	1381.70	4.84	3.79	0.95	28831.39	28830.21

105 20 4 TRISPON 48 20 2.458 124 55 42.445

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.35	87	45770.94	.43	44286.66	0.00	1483.85	1480.67	3.18	2.81			
0.00	0	0.00	.43	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.25	73	14699.76	.43	44285.19	28927.37	1386.77	1381.88	4.89	3.78	0.95	28829.77	28828.58

105 23 6 TRISPON 48 19 46.222 124 55 52.800

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.34	87	45772.81	.43	44286.66	0.00	1485.72	1482.49	3.23	2.81			
0.00	0	0.00	.43	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.24	73	14699.98	.43	44285.19	28927.37	1386.99	1382.04	4.95	3.79	0.95	28828.12	28826.92

105 20 8 TRISPON 48 19 30.371 124 56 3.154

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.37	87	45774.58	.43	44286.66	0.00	1487.49	1484.27	3.22	2.81			
0.00	0	0.00	.43	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.23	73	14700.18	.43	44285.19	28927.37	1387.19	1382.22	4.97	3.79	0.95	28826.55	28825.32

105 2026 TRISPON 48 18 37.778 124 56 1.117

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.43	87	45779.52	.43	44286.66	0.00	1492.43	1489.20	3.23	2.80			
0.00	0	0.00	.43	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.32	73	14698.49	.43	44285.19	28927.37	1385.50	1380.43	5.07	3.81	0.95	28819.92	28818.60

105 2028 TRISPON 48 18 55.949 124 55 47.037

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.37	87	45777.34	.43	44286.66	0.00	1490.25	1487.10	3.15	2.81			
0.00	0	0.00	.43	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.24	73	14698.11	.43	44285.19	28927.37	1385.12	1380.08	5.04	3.81	0.95	28821.72	28820.35

105 2030 TRISPON 48 19 14.303 124 55 33.213

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.39	87	45775.18	.43	44286.66	0.00	1488.09	1484.98	3.11	2.81			
0.00	0	0.00	.43	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.25	73	14697.75	.43	44285.19	28927.37	1384.76	1379.75	5.01	3.80	0.95	28823.52	28822.14

105 2032 TRISPON 48 19 32.919 124 55 18.208

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.39	87	45773.12	.43	44286.66	0.00	1486.03	1482.81	3.22	2.81			
0.00	0	0.00	.43	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.24	73	14697.39	.43	44285.19	28927.37	1384.40	1379.36	5.04	3.80	0.95	28825.22	28823.92

105 2034 TRISPON 48 19 51.202 124 55 5.119

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.42	87	45771.07	.43	44286.66	0.00	1483.98	1480.72	3.26	2.81			
0.00	0	0.00	.43	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.23	72	14697.01	.43	44285.19	28927.37	1384.02	1379.09	4.93	3.80	0.95	28826.89	28825.74

105 2036 TRISPON 48 20 9.454 124 54 51.498

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.40	87	45768.96	.43	44286.66	0.00	1481.87	1478.62	3.25	2.82			
0.00	0	0.00	.43	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.25	72	14696.64	.43	44285.19	28927.37	1383.65	1378.78	4.87	3.80	0.95	28828.63	28827.53

105 2038 TRISPON 48 20 28.028 124 54 37.181

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.37	87	45766.84	.43	44286.66	0.00	1479.75	1476.48	3.27	2.82			
0.00	0	0.00	.43	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.28	72	14696.29	.43	44285.19	28927.37	1383.30	1378.44	4.86	3.81	0.95	28830.40	28829.33

105 2040 TRISPON 48 20 47.202 124 54 23.968

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.36	88	45764.71	.43	44286.66	0.00	1477.62	1474.30	3.32	2.82			
0.00	0	0.00	.43	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.32	72	14695.95	.43	44285.19	28927.37	1382.96	1378.20	4.76	3.82	0.95	28832.19	28831.27

105 2042 TRISPON 48 21 5.055 124 54 10.465

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.39	87	45762.53	.43	44286.66	0.00	1475.44	1472.24	3.20	2.83			
0.00	0	0.00	.43	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.30	73	14695.59	.43	44285.19	28927.37	1382.60	1377.89	4.71	3.85	0.95	28834.01	28833.02

105 2044 TRISPON 48 21 23.292 124 53 56.846

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.39	87	45760.52	.43	44286.66	0.00	1473.43	1470.15	3.28	2.84			
0.00	0	0.00	.43	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.28	72	14695.25	.43	44285.19	28927.37	1382.26	1377.60	4.66	3.85	0.95	28835.68	28834.82

105 2046 TRISPON 48 21 41.865 124 53 43.102

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.35	87	45758.51	.43	44286.66	0.00	1471.42	1468.01	3.41	2.84			
0.00	0	0.00	.43	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.31	72	14694.92	.43	44285.19	28927.37	1381.93	1377.31	4.62	3.84	0.95	28837.36	28836.67

105 2048 TRISPON 48 21 59.479 124 53 29.290

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.32	87	45756.50	.44	44286.66	0.00	1469.40	1465.96	3.44	2.84			
0.00	0	0.00	.44	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.28	71	14694.62	.44	44285.19	28927.37	1381.62	1376.98	4.64	3.86	0.95	28839.07	28838.39

105 2050 TRISPON 48 22 15.978 124 53 17.093

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.28	87	45754.41	.44	44286.66	0.00	1467.31	1464.07	3.24	2.84			
0.00	0	0.00	.44	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.25	71	14694.30	.44	44285.19	28927.37	1381.30	1376.73	4.57	3.88	0.95	28840.84	28840.03

105 2052 TRISPON 48 22 33.865 124 53 3.004

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.28	87	45752.35	.44	44286.66	0.00	1465.25	1461.99	3.26	2.85			
0.00	0	0.00	.44	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.24	71	14693.96	.44	44285.19	28927.37	1380.96	1376.41	4.55	3.88	0.95	28842.56	28841.79

105 2054 TRISPON 48 22 50.915 124 52 49.577

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.31	87	45750.39	.44	44286.66	0.00	1463.29	1460.01	3.28	2.85			
0.00	0	0.00	.44	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.22	72	14693.60	.44	44285.19	28927.37	1380.60	1376.11	4.49	3.86	0.95	28844.16	28843.47

105 2056 TRISPON 48 23 6.431 124 52 36.213

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.32	87	45748.55	.44	44286.66	0.00	1461.45	1458.18	3.27	2.85			
0.00	0	0.00	.44	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.27	71	14693.19	.44	44285.19	28927.37	1380.19	1375.76	4.43	3.82	0.95	28845.59	28844.95

105 2058 TRISPON 48 23 23.530 124 52 20.828

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.30	87	45746.60	.44	44286.66	0.00	1459.50	1456.14	3.36	2.86			
0.00	0	0.00	.44	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.24	71	14692.73	.44	44285.19	28927.37	1379.73	1375.33	4.40	3.80	0.95	28847.08	28846.56

105 21 0 TRISPON 48 23 39.344 124 52 6.644

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.28	87	45744.72	.44	44286.66	0.00	1457.62	1454.26	3.36	2.86			
0.00	0	0.00	.44	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.25	71	14692.27	.44	44285.19	28927.37	1379.27	1374.95	4.32	3.81	0.95	28848.50	28848.06

105 21 2 TRISPON 48 23 57.496 124 51 52.026

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.26	86	45742.75	.44	44286.66	0.00	1455.65	1452.14	3.51	2.86			
0.00	0	0.00	.44	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.24	71	14691.89	.44	44285.19	28927.37	1378.89	1374.61	4.28	3.79	0.95	28850.09	28849.84

105 21 4 TRISPON 48 24 12.666 124 51 40.873

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.24	87	45740.78	.44	44286.66	0.00	1453.68	1450.40	3.28	2.87			
0.00	0	0.00	.44	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.25	71	14691.56	.44	44285.19	28927.37	1378.56	1374.41	4.15	3.80	0.95	28851.73	28851.38

105 21 6 TRISPON 48 24 30.935 124 51 26.221

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.25	87	45738.81	.44	44286.66	0.00	1451.71	1448.27	3.44	2.87			
0.00	0	0.00	.44	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.29	71	14691.27	.44	44285.19	28927.37	1378.27	1374.08	4.19	3.82	0.95	28853.41	28853.18

105 21 8 TRISPON 48 24 46.344 124 51 14.877

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.26	87	45737.10	.44	44286.66	0.00	1450.00	1446.51	3.49	2.88			
0.00	0	0.00	.44	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.26	71	14690.99	.44	44285.19	28927.37	1377.99	1373.88	4.11	3.65	0.95	28854.84	28854.74

105 2110 TRISPON 48 25 .406 124 51 3.882

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.28	87	45735.35	.44	44286.66	0.00	1448.25	1444.88	3.37	2.88			
0.00	0	0.00	.44	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.28	71	14690.70	.44	44285.19	28927.37	1377.70	1373.65	4.05	3.57	0.95	28856.30	28856.14

105 2112 TRISPON 48 25 15.696 124 50 51.460

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.28	87	45733.60	.44	44286.66	0.00	1446.50	1443.09	3.41	2.88			
0.00	0	0.00	.44	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.25	71	14690.37	.44	44285.19	28927.37	1377.37	1373.38	3.99	3.48	0.95	28857.72	28857.66

105 2114 TRISPON 48 25 29.877 124 50 40.942

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.25	87	45731.83	.44	44286.66	0.00	1444.73	1441.46	3.27	2.88			
0.00	0	0.00	.44	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.19	71	14690.08	.44	44285.19	28927.37	1377.08	1373.19	3.89	3.39	0.95	28859.20	28859.10

105 2116 TRISPON 48 25 48.540 124 50 25.776

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.21	87	45729.99	.44	44286.66	0.00	1442.89	1439.28	3.61	2.89			
0.00	0	0.00	.44	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.21	71	14689.86	.44	44285.19	28927.37	1376.86	1372.86	4.00	3.28	0.95	28860.82	28860.95

105 2118 TRISPON 48 26 3.917 124 50 16.544

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.19	87	45728.12	.44	44286.66	0.00	1441.02	1437.58	3.44	2.89			
0.00	0	0.00	.44	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.19	71	14689.68	.44	44285.19	28927.37	1376.68	1372.80	3.88	3.09	0.95	28862.51	28862.59

105 2120 TRISPON 48 26 20.649 124 50 4.385

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.21	87	45726.35	.44	44286.66	0.00	1439.25	1435.66	3.59	2.90			
0.00	0	0.00	.44	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.21	71	14689.50	.44	44285.19	28927.37	1376.50	1372.60	3.90	3.07	0.95	28864.10	28864.31

105 2122 TRISPON 48 26 33.382 124 49 58.827

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.21	87	45724.58	.44	44286.66	0.00	1437.48	1434.31	3.17	2.90			
0.00	0	0.00	.44	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.34	71	14689.25	.44	44285.19	28927.37	1376.25	1372.69	3.56	3.06	0.95	28865.62	28865.75

105 2124 TRISPON 48 26 52.508 124 49 43.515

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.25	87	45722.66	.44	44286.66	0.00	1435.56	1432.08	3.48	2.91			
0.00	0	0.00	.44	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.37	72	14689.04	.44	44285.19	28927.37	1376.04	1372.38	3.66	3.04	0.95	28867.33	28867.67

105 2126 TRISPON 48 27 7.753 124 49 35.803

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.24	87	45720.67	.44	44286.66	0.00	1433.57	1430.43	3.14	2.91			
0.00	0	0.00	.44	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.35	72	14688.82	.44	44285.19	28927.37	1375.82	1372.43	3.39	3.02	0.95	28869.10	28869.37

105 2230 TRISPON 48 26 41.251 124 49 45.498

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.31	87	45723.32	.45	44286.66	0.00	1436.21	1433.20	3.01	2.91			
0.00	0	0.00	.45	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.39	72	14688.68	.45	44285.19	28927.37	1375.67	1372.11	3.56	3.08	0.95	28866.31	28866.28

105 2232 TRISPON 48 26 28.858 124 49 54.098

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.34	87	45725.39	.45	44286.66	0.00	1438.28	1434.61	3.67	2.90			
0.00	0	0.00	.45	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.30	72	14688.82	.45	44285.19	28927.37	1375.81	1372.23	3.58	3.08	0.95	28864.38	28864.99

105 2236 TRISPON 48 26 40.733 124 50 46.103

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.37	86	45725.75	.45	44286.66	0.00	1438.64	1434.90	3.74	2.90			
0.00	0	0.00	.45	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.33	72	14692.79	.45	44285.19	28927.37	1379.78	1376.00	3.78	3.08	0.95	28867.99	28868.47

105 2238 TRISPON 48 26 46.110 124 51 15.308

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.35	87	45725.95	.45	44286.66	0.00	1438.84	1435.18	3.66	2.90			
0.00	0	0.00	.45	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.40	72	14694.78	.45	44285.19	28927.37	1381.77	1378.07	3.70	3.08	0.95	28869.78	28870.26

105 2240 TRISPON 48 26 51.927 124 51 40.393

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.35	87	45726.13	.45	44286.66	0.00	1439.02	1435.32	3.70	2.90			
0.00	0	0.00	.45	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.38	72	14696.67	.45	44285.19	28927.37	1383.66	1379.90	3.76	3.08	0.95	28871.49	28871.95

105 2242 TRISPON 48 26 56.281 124 52 8.731

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.36	87	45726.33	.45	44286.66	0.00	1439.22	1435.69	3.53	2.90			
0.00	0	0.00	.45	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.36	72	14698.55	.45	44285.19	28927.37	1385.54	1381.88	3.66	3.07	0.95	28873.17	28873.56

105 2244 TRISPON 48 27 2.306 124 52 32.342

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.39	87	45726.51	.45	44286.66	0.00	1439.40	1435.77	3.63	2.90			
0.00	0	0.00	.45	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.36	72	14700.44	.45	44285.19	28927.37	1387.43	1383.61	3.82	3.07	0.95	28874.88	28875.21

105 2248 TRISPON 48 27 12.734 124 53 25.657

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.44	87	45726.91	.45	44286.66	0.00	1439.80	1436.25	3.55	2.90			
0.00	0	0.00	.45	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.36	72	14704.22	.45	44285.19	28927.37	1391.21	1387.42	3.79	3.06	0.95	28878.26	28878.54

105 2250 TRISPON 48 27 19.352 124 53 54.154

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.42	87	45727.09	.46	44286.66	0.00	1439.97	1436.41	3.56	2.94			
0.00	0	0.00	.46	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.34	72	14706.09	.46	44285.19	28927.37	1393.07	1389.48	3.59	3.06	0.95	28879.95	28880.44

105 2252 TRISPON 48 27 22.225 124 54 20.974

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.42	87	45727.26	.46	44286.66	0.00	1440.14	1436.89	3.25	2.94			
0.00	0	0.00	.46	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.39	79	14708.00	.46	44285.19	28927.37	1394.98	1391.31	3.67	3.06	0.95	28881.69	28881.79

105 2254 TRISPON 48 27 28.042 124 54 48.475

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.42	88	45727.39	.46	44286.66	0.00	1440.27	1437.10	3.17	2.93			
0.00	0	0.00	.46	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.35	72	14709.89	.46	44285.19	28927.37	1396.87	1393.29	3.58	3.06	0.95	28883.45	28883.56

105 2256 TRISPON 48 27 34.681 124 55 16.886

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.41	88	45727.55	.46	44286.66	0.00	1440.43	1437.27	3.16	2.93			
0.00	0	0.00	.46	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.44	72	14711.83	.46	44285.19	28927.37	1398.81	1395.36	3.45	3.06	0.95	28885.23	28885.46

105 23 0 TRISPON 48 27 47.153 124 56 11.837

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.41	87	45727.89	.46	44286.66	0.00	1440.77	1437.64	3.13	2.95			
0.00	0	0.00	.46	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.26	71	14715.69	.46	44285.19	28927.37	1402.67	1399.34	3.33	3.05	0.95	28888.75	28889.07

105 23 4 TRISPON 48 28 .348 124 56 58.090

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.37	87	45728.21	.46	44286.66	0.00	1441.09	1437.71	3.38	2.95			
0.00	0	0.00	.46	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.41	72	14719.53	.46	44285.19	28927.37	1406.51	1402.78	3.73	3.05	0.95	28892.27	28892.44

105 23 6 TRISPON 48 28 7.181 124 57 24.098

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.38	87	45728.35	.46	44286.66	0.00	1441.23	1437.80	3.43	2.95			
0.00	0	0.00	.46	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.35	72	14721.49	.46	44285.19	28927.37	1408.47	1404.70	3.77	3.05	0.95	28894.09	28894.27

105 23 8 TRISPON 48 28 13.655 124 57 51.039

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.39	88	45728.55	.46	44286.66	0.00	1441.43	1437.96	3.47	2.95			
0.00	0	0.00	.46	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.25	72	14723.44	.46	44285.19	28927.37	1410.42	1406.67	3.75	3.05	0.95	28895.84	28896.08

105 2310 TRISPON 48 28 19.931 124 58 17.909

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.46	88	45728.74	.46	44286.66	0.00	1441.62	1438.14	3.48	2.92			
0.00	0	0.00	.46	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.36	72	14725.38	.46	44285.19	28927.37	1412.36	1408.62	3.74	3.04	0.95	28897.59	28897.85

105 2312 TRISPON 48 28 26.369 124 58 45.310

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.46	87	45728.89	.46	44286.66	0.00	1441.77	1438.32	3.45	2.92			
0.00	0	0.00	.46	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.43	72	14727.34	.46	44285.19	28927.37	1414.32	1410.61	3.71	3.04	0.95	28899.40	28899.66

105 2314 TRISPON 48 28 31.919 124 59 11.518

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.41	87	45729.25	.46	44286.66	0.00	1442.13	1438.55	3.58	2.92			
0.00	0	0.00	.46	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.39	72	14729.25	.46	44285.19	28927.37	1416.23	1412.50	3.73	3.04	0.95	28900.95	28901.32

105 2316 TRISPON 48 28 38.962 124 59 37.114

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.36	90	45729.22	.46	44286.66	0.00	1442.10	1438.63	3.47	2.92			
0.00	0	0.00	.46	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.28	72	14731.14	.46	44285.19	28927.37	1418.12	1414.40	3.72	3.03	0.95	28902.87	28903.14

105 2320 TRISPON 48 28 51.955 125 0 29.327

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.34	85	45729.60	.46	44286.66	0.00	1442.48	1438.92	3.56	2.87			
0.00	0	0.00	.46	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.42	72	14735.01	.46	44285.19	28927.37	1421.99	1418.22	3.77	3.03	0.95	28906.36	28906.67

105 2322 TRISPON 48 28 58.722 125 0 57.247

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.40	86	45729.75	.46	44286.66	0.00	1442.63	1439.09	3.54	2.87			
0.00	0	0.00	.46	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.39	73	14736.92	.46	44285.19	28927.37	1423.90	1420.26	3.64	3.03	0.95	28908.12	28908.54

105 2324 TRISPON 48 29 5.185 125 1 21.722

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.41	87	45729.86	.46	44286.66	0.00	1442.74	1439.20	3.54	2.87			
0.00	0	0.00	.46	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.29	72	14738.85	.46	44285.19	28927.37	1425.83	1422.06	3.77	3.03	0.95	28909.94	28910.23

105 2326 TRISPON 48 29 13.104 125 1 47.329

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.39	88	45729.95	.46	44286.66	0.00	1442.83	1439.20	3.63	2.87			
0.00	0	0.00	.46	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.36	72	14740.75	.46	44285.19	28927.37	1427.73	1423.99	3.74	3.02	0.95	28911.75	28912.16

105 2328 TRISPON 48 29 19.327 125 2 13.835

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.37	88	45730.03	.46	44286.66	0.00	1442.91	1439.40	3.51	2.87			
0.00	0	0.00	.46	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.42	72	14742.69	.46	44285.19	28927.37	1429.67	1425.92	3.75	3.02	0.95	28913.61	28913.89

105 2330 TRISPON 48 29 26.487 125 2 41.998

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.36	88	45730.21	.46	44286.66	0.00	1443.09	1439.55	3.54	2.85			
0.00	0	0.00	.46	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.35	72	14744.56	.46	44285.19	28927.37	1431.54	1427.98	3.56	3.02	0.95	28915.30	28915.80

105 2332 TRISPON 48 29 33.246 125 3 6.663

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.39	87	45730.33	.46	44286.66	0.00	1443.26	1439.65	3.61	2.85			
0.00	0	0.00	.46	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.25	73	14746.46	.46	44285.19	28927.37	1433.44	1429.81	3.63	3.02	0.95	28917.03	28917.53

105 2334 TRISPON 48 29 39.738 125 3 32.650

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.42	88	45730.53	.46	44286.66	0.00	1443.41	1439.80	3.61	2.86			
0.00	0	0.00	.46	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.31	72	14748.39	.46	44285.19	28927.37	1435.37	1431.71	3.66	3.02	0.95	28918.81	28919.28

105 2336 TRISPON 48 29 47.559 125 3 59.623

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.41	88	45730.64	.46	44286.66	0.00	1443.52	1439.87	3.65	2.86			
0.00	0	0.00	.46	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.38	72	14750.32	.46	44285.19	28927.37	1437.30	1433.73	3.57	3.02	0.95	28920.63	28921.23

105 2338 TRISPON 48 29 54.482 125 4 24.959

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.36	88	45730.64	.46	44286.66	0.00	1443.52	1439.98	3.54	2.86			
0.00	0	0.00	.46	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.35	72	14752.18	.46	44285.19	28927.37	1439.16	1435.60	3.56	3.01	0.95	28922.49	28922.99

105 2340 TRISPON 48 30 1.131 125 4 48.862

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.33	88	45730.71	.46	44286.66	0.00	1443.59	1440.07	3.52	2.86			
0.00	0	0.00	.46	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.35	72	14754.10	.46	44285.19	28927.37	1441.08	1437.38	3.70	3.01	0.95	28924.34	28924.68

105 2342 TRISPON 48 30 8.195 125 5 15.484

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.35	88	45730.81	.46	44286.66	0.00	1443.69	1440.20	3.49	2.87			
0.00	0	0.00	.46	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.37	72	14756.00	.46	44285.19	28927.37	1442.98	1439.34	3.64	3.01	0.95	28926.14	28926.51

105 2344 TRISPON 48 30 15.164 125 5 40.326

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.37	88	45730.96	.46	44286.66	0.00	1443.84	1440.29	3.55	2.87			
0.00	0	0.00	.46	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.41	72	14757.89	.46	44285.19	28927.37	1444.87	1441.19	3.68	3.01	0.95	28927.88	28928.27

105 2346 TRISPON 48 30 22.521 125 6 6.403

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.37	88	45731.08	.46	44286.66	0.00	1443.96	1440.39	3.57	2.87			
0.00	0	0.00	.46	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.36	72	14759.82	.46	44285.19	28927.37	1446.80	1443.13	3.67	3.01	0.95	28929.69	28930.11

105 2348 TRISPON 48 30 30.128 125 6 34.424

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.38	88	45731.15	.46	44286.66	0.00	1444.03	1440.52	3.51	2.87			
0.00	0	0.00	.46	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.36	71	14761.71	.46	44285.19	28927.37	1448.69	1445.20	3.49	3.00	0.95	28931.51	28932.05

105 2352 TRISPON 48 30 45.026 125 7 23.283

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.37	88	45731.23	.47	44286.66	0.00	1444.10	1440.60	3.50	2.91			
0.00	0	0.00	.47	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.41	73	14765.50	.47	44285.19	28927.37	1452.47	1448.86	3.61	3.00	0.95	28935.22	28935.63

105 2354 TRISPON 48 30 52.521 125 7 48.839

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.40	88	45731.37	.47	44286.66	0.00	1444.24	1440.68	3.56	2.91			
0.00	0	0.00	.47	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.38	72	14767.39	.47	44285.19	28927.37	1454.36	1450.77	3.59	3.00	0.95	28936.97	28937.46

105 2356 TRISPON 48 31 .517 125 8 15.641

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.42	88	45731.49	.47	44286.66	0.00	1444.36	1440.75	3.61	2.91			
0.00	0	0.00	.47	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.37	72	14769.29	.47	44285.19	28927.37	1456.26	1452.78	3.48	3.00	0.95	28938.75	28939.40

105 2358 TRISPON 48 31 7.079 125 8 40.763

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.37	87	45731.55	.47	44286.66	0.00	1444.42	1440.90	3.52	2.91			
0.00	0	0.00	.47	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.35	71	14771.19	.47	44285.19	28927.37	1458.16	1454.62	3.54	3.00	0.95	28940.59	28941.09

106 0 0 TRISPON 48 31 15.694 125 9 6.255

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.34	87	45731.53	.47	44286.66	0.00	1444.40	1440.88	3.52	2.91			
0.00	0	0.00	.47	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.38	72	14773.10	.47	44285.19	28927.37	1460.07	1456.57	3.50	3.00	0.95	28942.52	28943.06

106 0 2 TRISPON 48 31 22.987 125 9 30.022

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.32	87	45731.57	.47	44286.66	0.00	1444.44	1440.93	3.51	2.91			
0.00	0	0.00	.47	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.37	72	14775.01	.47	44285.19	28927.37	1461.98	1458.36	3.62	2.99	0.95	28944.39	28944.80

106 0 4 TRISPON 48 31 30.084 125 9 53.791

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.31	86	45731.68	.47	44286.66	0.00	1444.55	1441.00	3.55	2.91			
0.00	0	0.00	.47	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.35	73	14776.88	.47	44285.19	28927.37	1463.85	1460.14	3.71	2.99	0.95	28946.15	28946.51

106 014 TRISPON 48 32 9.696 125 12 3.230

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.23	86	45731.98	.47	44286.66	0.00	1444.85	1441.33	3.52	2.93			
0.00	0	0.00	.47	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.30	72	14786.39	.47	44285.19	28927.37	1473.36	1469.86	3.50	2.98	0.95	28955.36	28955.90

106 016 TRISPON 48 32 17.294 125 12 28.107

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.25	86	45732.08	.47	44286.66	0.00	1444.95	1441.40	3.55	2.93			
0.00	0	0.00	.47	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.34	72	14788.28	.47	44285.19	28927.37	1475.25	1471.73	3.52	2.98	0.95	28957.15	28957.70

106 018 TRISPON 48 32 25.914 125 12 56.386

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.27	86	45732.14	.47	44286.66	0.00	1445.01	1441.48	3.53	2.93			
0.00	0	0.00	.47	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.33	72	14790.21	.47	44285.19	28927.37	1477.18	1473.86	3.32	2.98	0.95	28959.02	28959.75

106 020 TRISPON 48 32 33.984 125 13 20.800

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.28	86	45732.17	.47	44286.66	0.00	1445.04	1441.50	3.54	2.89			
0.00	0	0.00	.47	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.35	72	14792.14	.47	44285.19	28927.37	1479.11	1475.71	3.40	2.98	0.95	28960.92	28961.58

106 022 TRISPON 48 32 50.227 125 13 19.984

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.26	86	45730.95	.47	44286.66	0.00	1443.82	1439.99	3.83	2.89			
0.00	0	0.00	.47	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.49	73	14793.16	.47	44285.19	28927.37	1480.13	1476.23	3.90	2.90	0.95	28963.16	28963.61

106 024 TRISPON 48 33 8.661 125 13 7.869

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.25	86	45728.85	.47	44286.66	0.00	1441.72	1437.92	3.80	2.89			
0.00	0	0.00	.47	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.45	72	14792.87	.47	44285.19	28927.37	1479.84	1476.09	3.75	2.90	0.95	28964.97	28965.54

106 026 TRISPON 48 33 24.787 125 12 58.304

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.28	87	45726.84	.47	44286.66	0.00	1439.71	1436.14	3.57	2.90			
0.00	0	0.00	.47	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.39	72	14792.67	.47	44285.19	28927.37	1479.64	1476.05	3.59	2.90	0.95	28966.78	28967.28

106 028 TRISPON 48 33 41.897 125 12 46.765

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.29	86	45724.88	.47	44286.66	0.00	1437.75	1434.21	3.54	2.90			
0.00	0	0.00	.47	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.37	72	14792.53	.47	44285.19	28927.37	1479.50	1475.91	3.59	2.90	0.95	28968.60	28969.07

106 030 TRISPON 48 33 59.490 125 12 35.030

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.28	86	45722.83	.47	44286.66	0.00	1435.75	1432.23	3.52	2.91			
0.00	0	0.00	.47	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.42	71	14792.36	.47	44285.19	28927.37	1479.33	1475.78	3.55	2.86	0.95	28970.43	28970.92

106 032 TRISPON 48 34 17.171 125 12 22.902

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.26	86	45720.86	.47	44286.66	0.00	1433.73	1430.23	3.50	2.91			
0.00	0	0.00	.47	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.39	73	14792.16	.47	44285.19	28927.37	1479.13	1475.63	3.50	2.86	0.95	28972.25	28972.77

106 034 TRISPON 48 34 34.061 125 12 10.098

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.27	86	45718.95	.47	44286.66	0.00	1431.82	1428.28	3.54	2.91			
0.00	0	0.00	.47	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.37	72	14791.92	.47	44285.19	28927.37	1478.89	1475.41	3.48	2.86	0.95	28973.92	28974.50

106 036 TRISPON 48 34 51.382 125 11 57.969

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.23	86	45717.03	.47	44286.66	0.00	1429.90	1426.31	3.59	2.92			
0.00	0	0.00	.47	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.23	72	14791.74	.47	44285.19	28927.37	1478.71	1475.26	3.45	2.85	0.95	28975.66	28976.32

106 038 TRISPON 48 35 8.421 125 11 45.967

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.24	86	45715.06	.47	44286.66	0.00	1427.93	1424.37	3.56	2.92			
0.00	0	0.00	.47	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.40	72	14791.53	.47	44285.19	28927.37	1478.50	1475.10	3.40	2.84	0.95	28977.42	28978.10

106 040 TRISPON 48 35 25.474 125 11 33.104

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.28	87	45713.14	.47	44286.66	0.00	1426.01	1422.40	3.61	2.93			
0.00	0	0.00	.47	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.42	72	14791.33	.47	44285.19	28927.37	1478.30	1474.89	3.41	2.84	0.95	28979.14	28979.86

106 042 TRISPON 48 35 42.029 125 11 20.618

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.28	91	45711.21	.47	44286.66	0.00	1424.08	1420.49	3.59	2.93			
0.00	0	0.00	.47	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.37	72	14791.10	.47	44285.19	28927.37	1478.07	1474.69	3.38	2.83	0.95	28980.84	28981.57

106 044 TRISPON 48 35 58.591 125 11 7.431

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.28	86	45709.29	.47	44286.66	0.00	1422.16	1418.56	3.60	2.94			
0.00	0	0.00	.47	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.39	72	14790.88	.47	44285.19	28927.37	1477.85	1474.45	3.40	2.81	0.95	28982.54	28983.26

106 046 TRISPON 48 36 15.508 125 10 54.604

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.28	86	45707.35	.47	44286.66	0.00	1420.22	1416.61	3.61	2.95			
0.00	0	0.00	.47	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.36	72	14790.66	.47	44285.19	28927.37	1477.63	1474.25	3.38	2.76	0.95	28984.26	28985.01

106 048 TRISPON 48 36 31.973 125 10 41.565

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.28	86	45705.43	.47	44286.66	0.00	1418.30	1414.69	3.61	2.95			
0.00	0	0.00	.47	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.36	71	14790.41	.47	44285.19	28927.37	1477.38	1474.02	3.36	2.74	0.95	28985.93	28986.70

106 050 TRISPON 48 36 48.985 125 10 27.776

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.30	87	45703.50	.47	44286.66	0.00	1416.37	1412.70	3.67	2.96			
0.00	0	0.00	.47	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.35	72	14790.16	.47	44285.19	28927.37	1477.13	1473.77	3.36	2.72	0.95	28987.61	28988.44

106 052 TRISPON 48 37 5.622 125 10 15.174

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.33	86	45701.57	.47	44286.66	0.00	1414.44	1410.78	3.66	2.96			
0.00	0	0.00	.47	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.35	73	14789.92	.47	44285.19	28927.37	1476.89	1473.58	3.31	2.70	0.95	28989.30	28990.17

106 054 TRISPON 48 37 22.377 125 10 .885

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.32	86	45699.63	.48	44286.66	0.00	1412.49	1408.79	3.70	2.96			
0.00	0	0.00	.48	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.38	72	14789.67	.48	44285.19	28927.37	1476.63	1473.28	3.35	2.70	0.95	28990.99	28991.86

106 056 TRISPON 48 37 39.141 125 9 47.307

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.29	86	45697.66	.48	44286.66	0.00	1410.52	1406.83	3.69	2.97			
0.00	0	0.00	.48	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.37	72	14789.44	.48	44285.19	28927.37	1476.40	1473.03	3.37	2.65	0.95	28992.73	28993.57

106 058 1D + DR 48 37 55.842 125 9 35.177

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.28	86	45695.75	.48	44286.66	0.00	1408.61	1404.92	3.69	2.97			
0.00	0	0.00	.48	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.35	72	14789.24	.48	44285.19	28927.37	1476.20	1472.88	3.32	2.66	0.95	28994.44	28995.33

106 1 2 TRISPON 48 38 29.519 125 9 10.716

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.32	86	45691.96	.48	44286.66	0.00	1404.82	1401.07	3.75	2.99			
0.00	0	0.00	.48	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.36	72	14788.99	.48	44285.19	28927.37	1475.95	1472.59	3.36	2.67	0.95	28997.98	28998.89

106 1 4 TRISPON 48 38 46.680 125 8 58.172

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.30	87	45690.03	.48	44286.66	0.00	1402.89	1399.10	3.79	3.00			
0.00	0	0.00	.48	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.36	73	14788.86	.48	44285.19	28927.37	1475.82	1472.44	3.38	2.65	0.95	28999.78	29000.71

106 1 8 TRISPON 48 39 20.392 125 8 33.066

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.28	86	45686.12	.48	44286.66	0.00	1398.98	1395.22	3.76	3.01			
0.00	0	0.00	.48	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.35	72	14788.62	.48	44285.19	28927.37	1475.58	1472.12	3.46	2.62	0.95	29003.45	29004.27

106 110 TRISPON 48 39 37.219 125 8 20.466

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.28	87	45684.20	.48	44286.66	0.00	1397.06	1393.29	3.77	3.02			
0.00	0	0.00	.48	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.36	72	14788.53	.48	44285.19	28927.37	1475.46	1471.96	3.50	2.59	0.95	29005.25	29006.04

106 112 TRISPON 48 39 54.526 125 8 8.154

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.32	86	45682.32	.48	44286.66	0.00	1395.18	1391.32	3.86	3.02			
0.00	0	0.00	.48	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.35	72	14788.38	.48	44285.19	28927.37	1475.34	1471.85	3.49	2.56	0.95	29007.01	29007.90

106 114 TRISPON 48 40 11.206 125 7 56.116

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.33	87	45680.42	.48	44286.66	0.00	1393.28	1389.41	3.87	3.04			
0.00	0	0.00	.48	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.36	73	14788.25	.48	44285.19	28927.37	1475.21	1471.72	3.49	2.56	0.95	29008.78	29009.68

106 19 2 SEXTANT 48 31 58.563 124 48 15.145

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.39	89	45691.84	.65	44286.66	0.00	1404.53	1400.71	3.82	2.99			
0.00	0	0.00	.65	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.39	72	14694.82	.65	44285.19	28927.37	1381.61	1377.90	3.71	2.72	0.95	28903.93	28904.56

106 19 4 SEXTANT 48 31 40.857 124 48 27.486

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.41	88	45693.94	.65	44286.66	0.00	1406.63	1402.72	3.91	2.99			
0.00	0	0.00	.65	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.39	71	14694.88	.65	44285.19	28927.37	1381.67	1378.02	3.65	2.75	0.95	28901.89	28902.67

106 19 6 SEXTANT 48 31 26.644 124 48 38.096

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.39	88	45696.14	.65	44286.66	0.00	1408.83	1404.39	4.44	2.98			
0.00	0	0.00	.65	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.34	72	14695.23	.65	44285.19	28927.37	1382.02	1378.17	3.85	2.76	0.95	28900.04	28901.15

106 1930 SEX+2TR 48 27 43.421 124 51 .205

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.35	88	45720.14	.66	44286.66	0.00	1432.82	1429.34	3.48	2.92			
0.00	0	0.00	.66	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.35	71	14695.98	.66	44285.19	28927.37	1382.76	1379.12	3.64	3.03	0.95	28876.79	28877.15

106 1932 SEX+2TR 48 27 25.314 124 51 11.250

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.39	87	45722.13	.66	44286.66	0.00	1434.81	1431.36	3.45	2.91			
0.00	0	0.00	.66	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.34	71	14696.17	.66	44285.19	28927.37	1382.95	1379.19	3.76	3.06	0.95	28874.99	28875.20

106 1934 SEX+2TR 48 27 7.671 124 51 24.245

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.38	87	45724.19	.66	44286.66	0.00	1436.87	1433.38	3.49	2.91			
0.00	0	0.00	.66	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.35	72	14696.34	.66	44285.19	28927.37	1383.12	1379.40	3.72	3.08	0.95	28873.10	28873.39

106 1936 SEX+2TR 48 26 48.608 124 51 38.813

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.39	87	45726.17	.66	44286.66	0.00	1438.85	1435.58	3.27	2.91			
0.00	0	0.00	.66	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.32	72	14696.53	.66	44285.19	28927.37	1383.31	1379.67	3.64	3.08	0.95	28871.31	28871.46

106 1940 SEX+2TR 48 26 58.402 124 51 15.145

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.37	87	45725.25	.66	44286.66	0.00	1437.93	1434.01	3.92	2.91			
0.00	0	0.00	.66	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.31	71	14695.43	.66	44285.19	28927.37	1382.21	1378.49	3.72	3.08	0.95	28871.13	28871.85

106 1942 SEX+2TR 48 27 18.573 124 51 1.634

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.37	87	45722.80	.66	44286.66	0.00	1435.48	1431.74	3.74	2.91			
0.00	0	0.00	.66	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.33	72	14695.34	.66	44285.19	28927.37	1382.12	1378.33	3.79	3.06	0.95	28873.49	28873.96

106 1944 SEX+2TR 48 27 39.093 124 50 47.662

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.38	87	45720.50	.66	44286.66	0.00	1433.18	1429.41	3.77	2.92			
0.00	0	0.00	.66	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.35	73	14695.11	.66	44285.19	28927.37	1381.89	1378.16	3.73	3.03	0.95	28875.56	28876.12

106 1946 SEX+2TR 48 27 59.531 124 50 34.363

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.39	88	45718.14	.66	44286.66	0.00	1430.82	1427.12	3.70	2.92			
0.00	0	0.00	.66	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.36	72	14694.92	.66	44285.19	28927.37	1381.70	1378.04	3.66	3.01	0.95	28877.73	28878.29

106 1948 TRISPON 48 28 19.856 124 50 22.314

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.37	87	45715.89	.66	44286.66	0.00	1428.57	1424.86	3.71	2.93			
0.00	0	0.00	.66	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.32	72	14694.85	.66	44285.19	28927.37	1381.63	1377.99	3.64	3.00	0.95	28879.91	28880.50

106 1950 1SEX+DR 48 28 40.428 124 50 10.408

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.35	87	45713.74	.66	44286.66	0.00	1426.42	1422.59	3.83	2.94			
0.00	0	0.00	.66	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.36	71	14694.72	.66	44285.19	28927.37	1381.50	1377.97	3.53	2.99	0.95	28881.93	28882.75

106 1952 1SEX+DR 48 29 .823 124 49 58.128

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.33	88	45711.46	.66	44286.66	0.00	1424.14	1420.33	3.81	2.94			
0.00	0	0.00	.66	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.31	71	14694.59	.66	44285.19	28927.37	1381.37	1377.92	3.45	2.95	0.95	28884.08	28884.96

106 1954 SEXTANT 48 29 20.973 124 49 45.129

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.32	87	45709.19	.66	44286.66	0.00	1421.87	1418.07	3.80	2.95			
0.00	0	0.00	.66	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.33	71	14694.40	.66	44285.19	28927.37	1381.18	1377.82	3.36	2.93	0.95	28886.16	28887.12

106 1956 SEXTANT 48 29 40.896 124 49 31.234

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.35	87	45706.91	.66	44286.66	0.00	1419.59	1415.81	3.78	2.95			
0.00	0	0.00	.66	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.32	71	14694.25	.66	44285.19	28927.37	1381.03	1377.65	3.38	2.88	0.95	28888.29	28889.21

106 1958 SEXTANT 48 30 .453 124 49 16.680

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.35	88	45704.78	.66	44286.66	0.00	1417.46	1413.56	3.90	2.96			
0.00	0	0.00	.66	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.35	71	14694.04	.66	44285.19	28927.37	1380.82	1377.44	3.38	2.87	0.95	28890.21	28891.25

106 20 0 SEXTANT 48 30 19.774 124 49 1.590

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.33	88	45702.60	.66	44286.66	0.00	1415.28	1411.32	3.96	2.96			
0.00	0	0.00	.66	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.30	70	14693.89	.66	44285.19	28927.37	1380.67	1377.18	3.49	2.82	0.95	28892.24	28893.23

106 20 2 SEXTANT 48 30 38.889 124 48 46.193

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.33	88	45700.32	.66	44286.66	0.00	1413.00	1409.09	3.91	2.97			
0.00	0	0.00	.66	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.35	70	14693.65	.66	44285.19	28927.37	1380.43	1376.91	3.52	2.81	0.95	28894.28	28895.19

106 20 4 SEX+1TR 48 30 57.961 124 48 30.687

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.34	87	45698.14	.66	44286.66	0.00	1410.82	1406.86	3.96	2.98			
0.00	0	0.00	.66	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.32	71	14693.41	.66	44285.19	28927.37	1380.19	1376.62	3.57	2.79	0.95	28896.22	28897.13

106 20 6 1SEX+1T 48 31 16.982 124 48 15.851

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.40	87	45695.88	.66	44286.66	0.00	1408.56	1404.66	3.90	2.98			
0.00	0	0.00	.66	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.36	71	14693.16	.66	44285.19	28927.37	1379.94	1376.39	3.55	2.72	0.95	28898.23	28899.10

106 20 8 1TRI+DR 48 31 36.153 124 48 1.420

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.37	88	45693.67	.66	44286.66	0.00	1406.35	1402.45	3.90	2.99			
0.00	0	0.00	.66	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.38	71	14692.92	.66	44285.19	28927.37	1379.70	1376.18	3.52	2.72	0.95	28900.20	28901.10

106 2010 1TRI+DR 48 31 55.470 124 47 47.254

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.34	88	45691.46	.66	44286.66	0.00	1404.14	1400.24	3.90	2.99			
0.00	0	0.00	.66	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.38	70	14692.76	.66	44285.19	28927.37	1379.54	1376.01	3.53	2.71	0.95	28902.25	28903.14

106 2012 SEX+1TR 48 32 14.640 124 47 32.927

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.35	88	45689.25	.66	44286.66	0.00	1401.93	1398.04	3.89	3.01			
0.00	0	0.00	.66	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.42	71	14692.57	.66	44285.19	28927.37	1379.35	1375.82	3.53	2.70	0.95	28904.27	28905.15

106 2014 SEX+1TR 48 32 33.252 124 47 19.004

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.38	88	45686.99	.66	44286.66	0.00	1399.67	1395.90	3.77	3.02			
0.00	0	0.00	.66	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.37	71	14692.35	.66	44285.19	28927.37	1379.13	1375.64	3.49	2.66	0.95	28906.31	28907.11

106 2016 SEX+1TR 48 32 52.558 124 47 5.032

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.39	88	45684.82	.66	44286.66	0.00	1397.50	1393.69	3.81	3.02			
0.00	0	0.00	.66	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.39	71	14692.13	.66	44285.19	28927.37	1378.91	1375.48	3.43	2.65	0.95	28908.26	28909.16

106 2018 SEX+1TR 48 33 12.141 124 46 51.632

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.43	88	45682.71	.66	44286.66	0.00	1395.39	1391.47	3.92	3.03			
0.00	0	0.00	.66	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.39	71	14692.02	.66	44285.19	28927.37	1378.80	1375.38	3.42	2.64	0.95	28910.26	28911.28

106 2020 SEX+1TR 48 33 31.984 124 46 37.064

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.41	88	45680.50	.66	44286.66	0.00	1393.18	1389.20	3.98	3.05			
0.00	0	0.00	.66	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.39	71	14691.91	.66	44285.19	28927.37	1378.69	1375.22	3.47	2.62	0.95	28912.36	28913.39

106 2022 SEX+1TR 48 33 51.158 124 46 23.692

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.39	89	45678.32	.66	44286.66	0.00	1391.00	1387.02	3.98	3.06			
0.00	0	0.00	.66	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.40	71	14691.78	.66	44285.19	28927.37	1378.56	1375.11	3.45	2.61	0.95	28914.41	28915.46

106 2024 SEX+1TR 48 34 9.727 124 46 10.666

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.42	88	45676.17	.66	44286.66	0.00	1388.85	1384.91	3.94	3.06			
0.00	0	0.00	.66	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.42	71	14691.66	.66	44285.19	28927.37	1378.44	1375.00	3.44	2.60	0.95	28916.44	28917.46

106 2026 SEX+1TR 48 34 28.841 124 45 56.621

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.46	88	45674.15	.66	44286.66	0.00	1386.83	1382.72	4.11	3.08			
0.00	0	0.00	.66	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.31	72	14691.54	.66	44285.19	28927.37	1378.32	1374.86	3.46	2.58	0.95	28918.34	28919.51

106 2028 SEX+1TR 48 34 46.762 124 45 43.544

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.47	88	45672.10	.67	44286.66	0.00	1384.77	1380.66	4.11	3.08			
0.00	0	0.00	.67	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.39	72	14691.43	.67	44285.19	28927.37	1378.20	1374.72	3.48	2.58	0.95	28920.28	28921.43

106 2030 SEXTANT 48 35 1.451 124 45 23.738

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.46	89	45670.14	.67	44286.66	0.00	1382.81	1378.73	4.08	3.10			
0.00	0	0.00	.67	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.55	73	14691.09	.67	44285.19	28927.37	1377.86	1374.04	3.82	2.58	0.95	28921.90	28922.68

106 2032 SEXTANT 48 34 51.416 124 44 54.692

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.42	89	45670.25	.67	44286.66	0.00	1382.92	1378.89	4.03	3.12			
0.00	0	0.00	.67	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.58	73	14688.76	.67	44285.19	28927.37	1375.53	1371.81	3.72	2.58	0.95	28919.46	28920.29

106 2034 SEXTANT 48 34 42.553 124 44 23.825

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.46	89	45670.37	.67	44286.66	0.00	1383.04	1378.89	4.15	3.12			
0.00	0	0.00	.67	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.40	73	14686.36	.67	44285.19	28927.37	1373.13	1369.51	3.62	2.59	0.95	28916.94	28917.99

106 2036 SEXTANT 48 34 29.469 124 43 56.517

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.47	89	45670.77	.67	44286.66	0.00	1383.44	1379.39	4.05	3.12			
0.00	0	0.00	.67	44285.70	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.50	72	14684.03	.67	44285.19	28927.37	1370.80	1367.27	3.53	2.59	0.95	28914.21	28915.25

108 1832 SEXTANT 48 42 5.512 123 29 10.570

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.94	71	23395.13	.24	22150.40	0.00	1244.55	1241.20	3.35	2.47			
0.00	0	0.00	.24	22149.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.03	59	52195.40	.24	22148.93	28927.37	1118.86	1114.75	4.11	3.29	0.95	28801.16	28800.92

108 1834 SEXTANT 48 42 14.184 123 28 40.722

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.97	70	23393.97	.24	22150.40	0.00	1243.33	1239.91	3.42	2.50			
0.00	0	0.00	.24	22149.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.00	59	52193.85	.24	22148.93	28927.37	1117.31	1113.49	3.82	3.27	0.95	28800.83	28800.95

108 1836 SEXTANT 48 42 24.164 123 28 8.281

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.94	72	23392.66	.24	22150.40	0.00	1242.02	1238.44	3.58	2.50			
0.00	0	0.00	.24	22149.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.99	60	52192.43	.24	22148.93	28927.37	1115.89	1112.15	3.74	3.32	0.95	28800.72	28801.08

108 1842 SEXTANT 48 42 52.418 123 26 34.274

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.96	71	23388.10	.24	22150.40	0.00	1237.46	1234.29	3.17	2.61			
0.00	0	0.00	.24	22149.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.99	59	52188.38	.24	22148.93	28927.37	1111.84	1108.25	3.59	3.26	0.95	28801.23	28801.33

108 1844 SEXTANT 48 42 59.929 123 26 .833

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.92	70	23386.73	.24	22150.40	0.00	1236.09	1233.08	3.01	2.62			
0.00	0	0.00	.24	22149.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.00	59	52187.03	.24	22148.93	28927.37	1110.49	1106.74	3.75	3.32	0.95	28801.25	28801.03

108 1846 SEXTANT 48 43 3.117 123 25 28.722

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.95	70	23385.91	.24	22150.40	0.00	1235.27	1232.32	2.95	2.62			
0.00	0	0.00	.24	22149.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.99	59	52185.25	.24	22148.93	28927.37	1108.71	1105.06	3.65	3.21	0.95	28800.29	28800.11

108 1850 SEXTANT 48 43 8.701 123 24 19.917

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.97	70	23384.46	.24	22150.40	0.00	1233.82	1230.84	2.98	2.64			
0.00	0	0.00	.24	22149.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.97	59	52181.50	.24	22148.93	28927.37	1104.96	1101.41	3.55	3.06	0.95	28797.99	28797.94

108 1854 SEXTANT 48 42 43.153 123 23 24.604

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.94	85	23386.23	.25	22150.40	0.00	1235.58	1232.69	2.89	2.56			
0.00	0	0.00	.25	22149.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.99	59	52176.92	.25	22148.93	28927.37	1100.37	1096.80	3.57	3.07	0.95	28791.64	28791.48

108 1858 SEXTANT 48 42 19.806 123 22 24.261

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.98	70	23386.07	.25	22150.40	0.00	1237.42	1234.28	3.14	2.55			
0.00	0	0.00	.25	22149.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.96	58	52172.26	.25	22148.93	28927.37	1095.71	1092.03	3.68	3.09	0.95	28785.14	28785.12

108 19 0 SEXTANT 48 42 16.617 123 21 51.499

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.94	70	23388.01	.25	22150.40	0.00	1237.36	1234.18	3.18	2.55			
0.00	0	0.00	.25	22149.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.97	59	52170.00	.25	22148.93	28927.37	1093.45	1089.97	3.48	3.09	0.95	28782.94	28783.16

108 19 2 SEXTANT 48 42 11.556 123 21 20.942

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.95	70	23388.05	.25	22150.40	0.00	1237.40	1234.31	3.09	2.55			
0.00	0	0.00	.25	22149.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.95	59	52167.89	.25	22148.93	28927.37	1091.34	1087.94	3.40	3.10	0.95	28780.79	28781.00

108 19 6 SEXTANT 48 42 2.064 123 20 13.444

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.95	82	23388.62	.25	22150.40	0.00	1237.97	1234.43	3.54	2.72			
0.00	0	0.00	.25	22149.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.98	58	52163.55	.25	22148.93	28927.37	1087.00	1083.53	3.47	3.06	0.95	28775.88	28776.47

108 1912 SEXTANT 48 41 47.993 123 18 32.009

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.93	71	23388.88	.25	22150.40	0.00	1238.23	1234.63	3.60	2.89			
0.00	0	0.00	.25	22149.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.96	59	52157.49	.25	22148.93	28927.37	1080.94	1076.93	4.01	2.93	0.95	28769.56	28769.67

108 1914 SEXTANT 48 41 44.971 123 18 8.382

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.95	70	23389.03	.25	22150.40	0.00	1238.38	1234.66	3.72	2.89			
0.00	0	0.00	.25	22149.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.95	58	52155.61	.25	22148.93	28927.37	1079.06	1075.40	3.66	2.92	0.95	28767.53	28768.11

108 1920 SEXTANT 48 41 55.068 123 16 52.548

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.97	71	23387.11	.25	22150.40	0.00	1236.46	1232.74	3.72	2.74			
0.00	0	0.00	.25	22149.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.93	58	52151.67	.25	22148.93	28927.37	1075.12	1071.63	3.49	3.10	0.95	28765.51	28766.26

108 1922 SEXTANT 48 42 1.095 123 16 30.292

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.98	71	23385.96	.25	22150.40	0.00	1235.31	1231.87	3.44	2.74			
0.00	0	0.00	.25	22149.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.93	59	52150.69	.25	22148.93	28927.37	1074.14	1070.70	3.44	3.26	0.95	28765.68	28766.20

108 1924 SEXTANT 48 42 7.724 123 16 4.678

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.98	71	23384.92	.25	22150.40	0.00	1234.27	1230.90	3.37	2.74			
0.00	0	0.00	.25	22149.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.97	59	52149.66	.25	22148.93	28927.37	1073.11	1069.62	3.49	3.29	0.95	28765.69	28766.09

108 1926 SEXTANT 48 42 15.200 123 15 41.253

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.01	72	23383.89	.25	22150.40	0.00	1233.24	1229.87	3.37	2.75			
0.00	0	0.00	.25	22149.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.97	58	52148.67	.25	22148.93	28927.37	1072.12	1068.71	3.41	3.21	0.95	28765.73	28766.21

108 1928 SEXTANT 48 42 22.859 123 15 17.645

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.03	72	23382.83	.25	22150.40	0.00	1232.18	1228.83	3.35	2.75			
0.00	0	0.00	.25	22149.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.02	60	52147.75	.25	22148.93	28927.37	1071.20	1067.80	3.40	3.18	0.95	28765.87	28766.34

108 1932 SEXTANT 48 42 34.597 123 14 28.339

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.00	72	23380.79	.25	22150.40	0.00	1230.14	1227.08	3.06	2.74			
0.00	0	0.00	.25	22149.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.11	61	52145.82	.25	22148.93	28927.37	1069.27	1065.66	3.61	3.18	0.95	28765.98	28765.95

108 1934 SEXTANT 48 42 40.872 123 14 3.473

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.99	72	23379.82	.25	22150.40	0.00	1229.17	1226.16	3.01	2.75			
0.00	0	0.00	.25	22149.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.02	59	52144.78	.25	22148.93	28927.37	1068.23	1064.61	3.62	3.15	0.95	28765.91	28765.82

108 1940 SEXTANT 48 43 4.255 123 12 42.817

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.04	71	23376.78	.25	22150.40	0.00	1226.13	1222.90	3.23	2.84			
0.00	0	0.00	.25	22149.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.05	58	52141.57	.25	22148.93	28927.37	1065.02	1061.39	3.63	3.19	0.95	28765.74	28765.86

108 1942 SEXTANT 48 43 11.994 123 12 17.054

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.08	71	23375.78	.25	22150.40	0.00	1225.13	1221.83	3.30	2.84			
0.00	0	0.00	.25	22149.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.00	61	52140.57	.25	22148.93	28927.37	1064.02	1060.38	3.64	3.16	0.95	28765.74	28765.92

108 1944 SEXTANT 48 43 19.379 123 11 50.475

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.99	71	23374.77	.26	22150.40	0.00	1224.11	1220.79	3.32	2.84			
0.00	0	0.00	.26	22149.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.03	58	52139.56	.26	22148.93	28927.37	1063.00	1059.30	3.70	3.16	0.95	28765.74	28765.88

108 1948 SEXTANT 48 43 32.460 123 11 1.482

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.96	71	23372.85	.26	22150.40	0.00	1222.19	1218.94	3.25	2.83			
0.00	0	0.00	.26	22149.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.01	59	52137.35	.26	22148.93	28927.37	1060.79	1057.30	3.49	3.38	0.95	28765.45	28765.73

108 1950 SEXTANT 48 43 37.022 123 10 33.025

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.96	71	23371.93	.26	22150.40	0.00	1221.27	1218.17	3.10	2.84			
0.00	0	0.00	.26	22149.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.02	58	52136.23	.26	22148.93	28927.37	1059.67	1055.96	3.71	3.39	0.95	28765.25	28765.16

108 1952 SEXTANT 48 43 44.058 123 10 8.247

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.01	71	23371.01	.26	22150.40	0.00	1220.35	1217.20	3.15	2.85			
0.00	0	0.00	.26	22149.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.01	58	52135.17	.26	22148.93	28927.37	1058.61	1054.98	3.63	3.39	0.95	28765.11	28765.15

108 2046 SEX.PLO 48 45 54.000 123 11 13.000

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.00	71	23358.59	.27	22150.40	0.00	1207.92	1204.64	3.28	2.87			
0.00	0	0.00	.27	22149.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.02	60	52146.31	.27	22148.93	28927.37	1069.74	1066.26	3.48	3.30	0.95	28788.67	28788.99

108 2050 SEX.PLO 48 46 15.000 123 12 12.000

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.03	72	23357.03	.27	22150.40	0.00	1206.36	1203.14	3.22	2.84			
0.00	0	0.00	.27	22149.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.99	60	52150.95	.27	22148.93	28927.37	1074.38	1070.80	3.58	3.36	0.95	28794.87	28795.03

108 2054 SEX.PLO 48 46 40.800 123 13 3.000

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.07	71	23355.10	.27	22150.40	0.00	1204.43	1201.07	3.36	2.72			
0.00	0	0.00	.27	22149.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.00	60	52155.62	.27	22148.93	28927.37	1079.05	1075.17	3.88	3.35	0.95	28801.47	28801.47

108 2058 SEX.PLO 48 47 16.800 123 13 40.800

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.00	72	23351.71	.27	22150.40	0.00	1201.04	1197.83	3.21	2.74			
0.00	0	0.00	.27	22149.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.00	60	52159.89	.27	22148.93	28927.37	1083.32	1079.41	3.91	3.28	0.95	28809.13	28808.95

108 21 4 SEX.PLO 48 48 9.600 123 14 40.000

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.02	71	23347.07	.27	22150.40	0.00	1196.40	1193.14	3.26	2.79			
0.00	0	0.00	.27	22149.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.99	59	52166.19	.27	22148.93	28927.37	1089.62	1085.84	3.78	3.28	0.95	28820.07	28820.07

108 21 6 SEX.PLO 48 48 29.400 123 15 0.000

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.00	72	23345.52	.27	22150.40	0.00	1194.85	1191.36	3.49	2.76			
0.00	0	0.00	.27	22149.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.98	59	52168.28	.27	22148.93	28927.37	1091.71	1088.13	3.58	3.33	0.95	28823.71	28824.14

108 2110 SEX.PLO 48 48 46.800 123 15 50.400

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.96	71	23343.55	.27	22150.40	0.00	1192.88	1190.18	2.70	2.81			
0.00	0	0.00	.27	22149.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.00	59	52172.51	.27	22148.93	28927.37	1095.94	1091.97	3.97	3.31	0.95	28829.91	28829.16

108 2112 SEX.PLO 48 49 4.800 123 16 12.600

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.00	70	23343.28	.27	22150.40	0.00	1192.61	1188.62	3.99	2.84			
0.00	0	0.00	.27	22149.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.97	60	52174.73	.27	22148.93	28927.37	1098.16	1094.28	3.88	3.30	0.95	28832.40	28833.03

108 2116 SEX.PLO 48 49 12.000 123 17 17.400

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.93	70	23342.53	.27	22150.40	0.00	1191.92	1188.67	3.25	2.76			
0.00	0	0.00	.27	22149.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.95	60	52179.03	.27	22148.93	28927.37	1102.46	1098.32	4.14	3.24	0.95	28837.39	28837.02

108 2122 SEX.PLO 48 49 36.000 123 18 43.200

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.96	70	23341.35	.27	22150.40	0.00	1190.68	1187.29	3.39	2.64			
0.00	0	0.00	.27	22149.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.93	62	52184.97	.27	22148.93	28927.37	1108.40	1104.52	3.88	3.26	0.95	28844.57	28844.60

108 2124 SEX.PLO 48 49 40.800 123 19 15.000

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.93	70	23341.14	.27	22150.40	0.00	1190.47	1187.20	3.27	2.62			
0.00	0	0.00	.27	22149.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.98	59	52186.97	.27	22148.93	28927.37	1110.40	1106.58	3.82	3.39	0.95	28846.78	28846.75

108 2126 SEX.PLO 48 49 44.400 123 19 47.400

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.96	70	23341.19	.27	22150.40	0.00	1190.52	1187.24	3.28	2.64			
0.00	0	0.00	.27	22149.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.96	59	52188.95	.27	22148.93	28927.37	1112.38	1108.60	3.78	3.49	0.95	28848.71	28848.73

108 2128 SEX.PLO 48 49 57.000 123 20 13.200

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.96	70	23340.42	.27	22150.40	0.00	1189.75	1186.30	3.45	2.66			
0.00	0	0.00	.27	22149.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.96	60	52191.17	.27	22148.93	28927.37	1114.60	1110.79	3.81	3.44	0.95	28851.70	28851.86

108 2132 SEX.PLO 48 50 24.600 123 20 55.200

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.99	70	23338.05	.28	22150.40	0.00	1187.37	1184.03	3.34	2.58			
0.00	0	0.00	.28	22149.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.95	59	52195.73	.28	22148.93	28927.37	1119.15	1114.75	4.40	3.31	0.95	28858.63	28858.09

108 2140 SEX.PLO 48 51 12.000 123 22 54.000

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.00	70	23334.62	.28	22150.40	0.00	1183.94	1180.81	3.13	2.62			
0.00	0	0.00	.28	22149.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.99	59	52204.64	.28	22148.93	28927.37	1128.06	1124.18	3.88	3.27	0.95	28870.97	28870.74

108 2142 SEX.PLO 48 51 22.200 123 23 24.600

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.00	70	23333.72	.28	22150.40	0.00	1183.04	1180.19	2.85	2.66			
0.00	0	0.00	.28	22149.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.02	61	52206.91	.28	22148.93	28927.37	1130.33	1126.49	3.84	3.27	0.95	28874.14	28873.67

108 2144 SEX.PLO 48 51 37.200 123 23 53.400

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.03	70	23332.64	.28	22150.40	0.00	1181.96	1179.07	2.89	2.62			
0.00	0	0.00	.28	22149.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.00	60	52209.26	.28	22148.93	28927.37	1132.68	1128.99	3.69	3.26	0.95	28877.57	28877.29

108 2146 SEX.PLO 48 51 52.800 123 24 17.400

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.96	71	23331.42	.28	22150.40	0.00	1180.74	1177.82	2.92	2.60			
0.00	0	0.00	.28	22149.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.04	61	52211.67	.28	22148.93	28927.37	1135.09	1131.25	3.84	3.25	0.95	28881.20	28880.80

108 2148 SEX.PLO 48 52 7.800 123 24 42.600

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.98	70	23330.22	.28	22150.40	0.00	1179.54	1176.66	2.88	2.60			
0.00	0	0.00	.28	22149.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.05	60	52213.99	.28	22148.93	28927.37	1137.41	1133.54	3.87	3.24	0.95	28884.72	28884.25

108 2152 SEX.PLO 48 52 37.200 123 25 36.000

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.01	70	23328.00	.28	22150.40	0.00	1177.32	1174.44	2.88	2.42			
0.00	0	0.00	.28	22149.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.03	60	52218.64	.28	22148.93	28927.37	1142.06	1138.25	3.81	3.23	0.95	28891.59	28891.18

108 2154 SEX.PLO 48 52 51.600 123 25 58.800

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.02	71	23326.85	.28	22150.40	0.00	1176.17	1173.31	2.86	2.27			
0.00	0	0.00	.28	22149.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.99	59	52220.93	.28	22148.93	28927.37	1144.35	1140.37	3.98	3.22	0.95	28895.03	28894.43

108 2156 SEX.PLO 48 53 6.600 123 26 24.600

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.03	70	23325.70	.28	22150.40	0.00	1175.02	1172.16	2.86	2.27			
0.00	0	0.00	.28	22149.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.00	59	52223.19	.28	22148.93	28927.37	1146.61	1142.70	3.91	3.22	0.95	28898.44	28897.91

108 2158 SEX.PLO 48 53 22.200 123 26 46.800

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.99	70	23324.57	.28	22150.40	0.00	1173.89	1170.91	2.98	2.27			
0.00	0	0.00	.28	22149.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.00	59	52225.45	.28	22148.93	28927.37	1148.87	1144.86	4.01	3.21	0.95	28901.83	28901.32

108 22 0 SEX.PLO 48 53 36.000 123 27 15.600

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.98	70	23323.51	.28	22150.40	0.00	1172.83	1169.94	2.89	2.27			
0.00	0	0.00	.28	22149.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.01	59	52227.70	.28	22148.93	28927.37	1151.12	1147.28	3.84	3.09	0.95	28905.14	28904.71

108 22 2 SEX.PLO 48 53 49.800 123 27 42.600

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.98	69	23322.47	.28	22150.40	0.00	1171.79	1168.94	2.85	2.27			
0.00	0	0.00	.28	22149.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.99	59	52229.96	.28	22148.93	28927.37	1153.38	1149.60	3.78	3.09	0.95	28908.44	28908.03

108 22 6 SEX.PLO 48 54 19.200 123 28 34.200

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.96	70	23320.29	.28	22150.40	0.00	1169.61	1166.74	2.87	2.35			
0.00	0	0.00	.28	22149.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.99	59	52234.51	.28	22148.93	28927.37	1157.93	1154.21	3.72	3.08	0.95	28915.17	28914.84

108 2210 SEX.PLO 48 54 48.000 123 29 24.600

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.93	70	23318.28	.28	22150.40	0.00	1167.60	1164.60	3.00	2.49			
0.00	0	0.00	.28	22149.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.99	60	52239.01	.28	22148.93	28927.37	1162.43	1158.72	3.71	3.08	0.95	28921.68	28921.49

108 2214 SEX.PLO 48 55 18.600 123 30 10.200

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.00	70	23315.86	.28	22150.40	0.00	1165.18	1162.22	2.96	2.51			
0.00	0	0.00	.28	22149.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.97	59	52243.46	.28	22148.93	28927.37	1166.88	1163.07	3.81	3.11	0.95	28928.55	28928.22

108 2216 SEX.PLO 48 55 36.000 123 30 37.200

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.88	70	23314.59	.28	22150.40	0.00	1163.91	1160.88	3.03	2.51			
0.00	0	0.00	.28	22149.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.97	59	52245.67	.28	22148.93	28927.37	1169.09	1165.60	3.49	3.11	0.95	28932.03	28932.09

108 2220 SEX.PLO 48 56 6.600 123 31 22.800

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.95	69	23312.10	.28	22150.40	0.00	1161.42	1158.52	2.90	2.53			
0.00	0	0.00	.28	22149.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.00	60	52250.14	.28	22148.93	28927.37	1173.56	1169.95	3.61	3.36	0.95	28938.99	28938.80

108 2232 SEX.PLO 48 57 43.200 123 33 37.800

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.96	70	23304.39	.29	22150.40	0.00	1153.70	1150.96	2.74	2.53			
0.00	0	0.00	.29	22149.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.01	59	52264.04	.29	22148.93	28927.37	1187.45	1183.17	4.28	3.30	0.95	28960.60	28959.58

108 2234 SEX.PLO 48 58 1.200 123 34 3.600

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.93	69	23303.13	.29	22150.40	0.00	1152.44	1149.58	2.86	2.52			
0.00	0	0.00	.29	22149.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.02	60	52266.25	.29	22148.93	28927.37	1189.66	1185.68	3.98	3.29	0.95	28964.07	28963.47

108 2236 SEX.PLO 48 58 19.200 123 34 24.000

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.92	70	23301.80	.29	22150.40	0.00	1151.11	1148.11	3.00	2.52			
0.00	0	0.00	.29	22149.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.00	59	52268.36	.29	22148.93	28927.37	1191.77	1187.88	3.89	3.29	0.95	28967.51	28967.14

108 2238 SEX.PLO 48 58 36.000 123 34 42.600

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.91	69	23300.39	.29	22150.40	0.00	1149.70	1146.74	2.96	2.52			
0.00	0	0.00	.29	22149.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.00	59	52270.43	.29	22148.93	28927.37	1193.84	1189.91	3.93	3.30	0.95	28970.99	28970.54

108 2240 SEX.PLO 48 58 54.000 123 35 6.000

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.89	70	23299.00	.29	22150.40	0.00	1148.31	1145.33	2.98	2.49			
0.00	0	0.00	.29	22149.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.00	59	52272.52	.29	22148.93	28927.37	1195.93	1192.28	3.65	3.38	0.95	28974.47	28974.32

108 2242 SEX.PLO 48 59 10.200 123 35 24.600

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.92	70	23297.63	.29	22150.40	0.00	1146.94	1144.02	2.92	2.46			
0.00	0	0.00	.29	22149.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.00	60	52274.62	.29	22148.93	28927.37	1198.03	1194.27	3.76	3.48	0.95	28977.94	28977.62

108 2246 SEX.PLO 48 59 43.200 123 36 3.600

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.00	71	23294.84	.29	22150.40	0.00	1144.15	1141.37	2.78	2.47			
0.00	0	0.00	.29	22149.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.00	59	52278.81	.29	22148.93	28927.37	1202.22	1198.40	3.82	3.67	0.95	28984.92	28984.40

108 2250 SEX.PLO 49 0 19.200 123 36 41.400

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.00	71	23291.85	.29	22150.40	0.00	1141.16	1138.42	2.74	2.59			
0.00	0	0.00	.29	22149.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.02	60	52282.88	.29	22148.93	28927.37	1206.29	1202.64	3.65	3.63	0.95	28991.98	28991.59

108 2252 SEX.PLO 49 0 37.200 123 36 56.400

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.02	70	23290.46	.29	22150.40	0.00	1139.77	1136.88	2.89	2.52			
0.00	0	0.00	.29	22149.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.00	60	52284.91	.29	22148.93	28927.37	1208.32	1204.54	3.78	3.60	0.95	28995.40	28995.03

108 2258 SEX.PLO 49 1 28.500 123 37 55.000

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.04	71	23286.10	.29	22150.40	0.00	1135.41	1132.77	2.64	2.53			
0.00	0	0.00	.29	22149.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.00	60	52291.17	.29	22148.93	28927.37	1214.58	1210.85	3.73	3.63	0.95	29006.02	29005.45

108 23 4 SEXTANT 49 2 21.000 123 38 52.000

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.04	71	23282.13	.29	22150.40	0.00	1131.44	1128.55	2.89	2.58			
0.00	0	0.00	.29	22149.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.97	60	52297.53	.29	22148.93	28927.37	1220.94	1217.14	3.80	3.41	0.95	29016.35	29015.96

108 2310 SEX.PLO 49 3 13.200 123 39 54.000

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.05	71	23278.42	.29	22150.40	0.00	1127.73	1124.46	3.27	2.61			
0.00	0	0.00	.29	22149.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.98	60	52304.06	.29	22148.93	28927.37	1227.47	1223.70	3.77	3.23	0.95	29026.59	29026.61

108 2314 SEX.PLO 49 3 49.200 123 40 17.400

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.02	71	23274.73	.29	22150.40	0.00	1124.04	1121.30	2.74	2.62			
0.00	0	0.00	.29	22149.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.97	60	52307.56	.29	22148.93	28927.37	1230.97	1227.15	3.82	3.17	0.95	29033.78	29033.22

108 2318 SEX.PLO 49 4 34.200 123 40 32.400

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.98	71	23270.85	.30	22150.40	0.00	1120.15	1117.09	3.06	2.63			
0.00	0	0.00	.30	22149.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.98	61	52310.81	.30	22148.93	28927.37	1234.21	1230.68	3.53	3.10	0.95	29040.91	29040.96

108 2320 SEX.PLO 49 4 52.800 123 40 54.000

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.96	71	23269.42	.30	22150.40	0.00	1118.72	1115.64	3.08	2.66			
0.00	0	0.00	.30	22149.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.00	61	52312.85	.30	22148.93	28927.37	1236.25	1232.99	3.26	3.10	0.95	29044.38	29044.72

108 2322 SEX.PLO 49 5 5.400 123 41 15.000

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.97	71	23268.31	.30	22150.40	0.00	1117.61	1114.78	2.83	2.65			
0.00	0	0.00	.30	22149.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.99	62	52315.12	.30	22148.93	28927.37	1238.52	1234.91	3.61	3.09	0.95	29047.76	29047.50

108 2324 SEX.PLO 49 5 21.000 123 41 35.400

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.97	71	23267.17	.30	22150.40	0.00	1116.47	1113.61	2.86	2.65			
0.00	0	0.00	.30	22149.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.00	61	52317.34	.30	22148.93	28927.37	1240.74	1236.97	3.77	3.07	0.95	29051.12	29050.73

108 2340 SEX.PLO 49 5 20.400 123 44 54.600

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.00	71	23271.82	.30	22150.40	0.00	1121.12	1117.43	3.69	2.71			
0.00	0	0.00	.30	22149.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.94	60	52328.00	.30	22148.93	28927.37	1251.40	1247.89	3.51	3.23	0.95	29057.13	29057.83

108 2344 SEX.PLO 49 5 55.200 123 45 19.200

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.98	71	23268.89	.30	22150.40	0.00	1118.19	1114.47	3.72	2.71			
0.00	0	0.00	.30	22149.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.97	60	52332.34	.30	22148.93	28927.37	1255.74	1251.34	4.40	3.16	0.95	29064.40	29064.24

108 2348 SEX.PLO 49 6 27.600 123 46 12.600

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.00	71	23266.14	.30	22150.40	0.00	1115.44	1112.31	3.13	2.69			
0.00	0	0.00	.30	22149.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.00	61	52336.45	.30	22148.93	28927.37	1259.85	1256.22	3.63	3.15	0.95	29071.26	29071.28

108 2352 SEX.PLO 49 7 0.000 123 46 58.800

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.96	71	23263.41	.30	22150.40	0.00	1112.71	1110.03	2.68	2.74			
0.00	0	0.00	.30	22149.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.00	61	52340.59	.30	22148.93	28927.37	1263.99	1260.71	3.28	3.13	0.95	29078.13	29078.05

109 1920 TRISPON 49 25 18.805 123 45 10.609

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.12	73	23154.53	.52	22150.40	0.00	1003.61	999.89	3.72	2.82			
3.28	106	38305.21	.52	22149.44	13343.58	2811.67	2807.06	4.61	4.95	0.52	15151.20	15150.75
3.00	61	52404.65	.52	22148.93	28927.37	1327.83	1324.37	3.46	3.03	0.95	29251.07	29251.85

109 1922 TRISPON 49 25 8.761 123 44 39.221

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.12	73	23154.81	.52	22150.40	0.00	1003.89	1000.20	3.69	2.84			
3.29	108	38307.47	.52	22149.44	13343.58	2813.93	2809.11	4.82	4.97	0.52	15153.18	15152.49
2.99	61	52402.35	.52	22148.93	28927.37	1325.53	1322.09	3.44	3.05	0.95	29248.49	29249.26

109 1924 TRISPON 49 24 58.729 123 44 7.854

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.10	73	23155.13	.52	22150.40	0.00	1004.21	1000.51	3.70	2.87			
3.28	108	38309.71	.52	22149.44	13343.58	2816.17	2811.16	5.01	4.96	0.52	15155.10	15154.23
3.02	61	52400.06	.52	22148.93	28927.37	1323.24	1319.81	3.43	3.08	0.95	29245.88	29246.67

109 1926 TRISPON 49 24 48.151 123 43 34.878

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.15	73	23155.50	.52	22150.40	0.00	1004.58	1000.86	3.72	2.87			
3.26	107	38311.75	.52	22149.44	13343.58	2818.21	2813.31	4.90	4.94	0.52	15156.77	15156.03
3.00	61	52397.75	.52	22148.93	28927.37	1320.93	1317.41	3.52	3.09	0.95	29243.20	29243.92

109 1928 TRISPON 49 24 38.220 123 43 4.175

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.05	73	23155.88	.52	22150.40	0.00	1004.96	1001.19	3.77	2.84			
3.25	108	38313.43	.52	22149.44	13343.58	2819.89	2815.32	4.57	4.96	0.52	15158.07	15157.71
3.00	61	52395.42	.52	22148.93	28927.37	1318.60	1315.16	3.44	3.13	0.95	29240.49	29241.34

109 1930 TRISPON 49 24 27.991 123 42 32.189

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.03	72	23156.24	.52	22150.40	0.00	1005.32	1001.53	3.79	2.85			
3.24	107	38315.80	.52	22149.44	13343.58	2822.26	2817.41	4.85	4.95	0.52	15160.08	15159.46
2.98	61	52393.12	.52	22148.93	28927.37	1316.30	1312.84	3.46	3.11	0.95	29237.83	29238.68

109 1932 TRISPON 49 24 17.728 123 42 1.024

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.03	72	23156.57	.52	22150.40	0.00	1005.65	1001.89	3.76	2.85			
3.28	108	38317.66	.52	22149.44	13343.58	2824.12	2819.47	4.65	4.94	0.52	15161.61	15161.16
3.00	60	52390.84	.52	22148.93	28927.37	1314.02	1310.55	3.47	3.11	0.95	29235.22	29236.03

109 1934 TRISPON 49 24 6.986 123 41 28.650

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.07	72	23156.90	.52	22150.40	0.00	1005.98	1002.28	3.70	2.88			
3.31	108	38319.50	.52	22149.44	13343.58	2825.96	2821.62	4.34	4.94	0.52	15163.12	15162.92
3.00	61	52388.59	.52	22148.93	28927.37	1311.77	1308.17	3.60	3.11	0.95	29232.64	29233.26

109 1936 TRISPON 49 23 57.224 123 40 58.833

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.05	72	23157.26	.52	22150.40	0.00	1006.34	1002.64	3.70	2.84			
3.31	108	38321.72	.52	22149.44	13343.58	2828.18	2823.59	4.59	4.92	0.52	15164.98	15164.53
3.01	61	52386.32	.52	22148.93	28927.37	1309.50	1305.99	3.51	3.12	0.95	29230.01	29230.72

109 1938 TRISPON 49 23 46.883 123 40 28.255

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.04	73	23157.60	.52	22150.40	0.00	1006.68	1003.03	3.65	2.86			
3.32	108	38323.71	.52	22149.44	13343.58	2830.17	2825.63	4.54	4.94	0.52	15166.63	15166.18
3.01	63	52384.04	.52	22148.93	28927.37	1307.22	1303.73	3.49	3.12	0.95	29227.39	29228.07

109 1942 TRISPON 49 23 25.913 123 39 24.454

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.03	73	23158.32	.52	22150.40	0.00	1007.40	1003.82	3.58	2.89			
3.30	109	38327.82	.52	22149.44	13343.58	2834.28	2829.85	4.43	4.98	0.52	15170.02	15169.61
3.00	60	52379.48	.52	22148.93	28927.37	1302.66	1299.05	3.61	3.13	0.95	29222.11	29222.60

109 1944 TRISPON 49 23 16.667 123 38 53.883

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.10	73	23158.71	.52	22150.40	0.00	1007.79	1004.13	3.66	2.89			
3.29	110	38329.73	.52	22149.44	13343.58	2836.19	2831.81	4.38	4.98	0.52	15171.54	15171.26
3.00	60	52377.21	.52	22148.93	28927.37	1300.39	1296.86	3.53	3.13	0.95	29219.45	29220.10

109 1948 TRISPON 49 22 55.205 123 37 52.259

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.12	73	23159.54	.53	22150.40	0.00	1008.61	1005.03	3.58	2.86			
3.28	109	38333.96	.53	22149.44	13343.58	2840.41	2835.97	4.44	4.98	0.52	15174.94	15174.52
3.00	60	52372.70	.53	22148.93	28927.37	1295.87	1292.26	3.61	3.20	0.95	29214.11	29214.60

109 1950 TRISPON 49 22 44.812 123 37 20.354

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.09	73	23160.02	.53	22150.40	0.00	1009.09	1005.44	3.65	2.86			
3.28	109	38336.12	.53	22149.44	13343.58	2842.57	2838.08	4.49	4.99	0.52	15176.62	15176.22
3.00	61	52370.47	.53	22148.93	28927.37	1293.64	1289.92	3.72	3.22	0.95	29211.40	29211.85

109 1952 TRISPON 49 22 37.101 123 36 49.667

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.09	73	23160.46	.53	22150.40	0.00	1009.53	1005.61	3.92	2.86			
3.27	108	38338.00	.53	22149.44	13343.58	2844.45	2839.91	4.54	4.99	0.52	15178.06	15177.88
3.00	61	52368.24	.53	22148.93	28927.37	1291.41	1287.83	3.58	3.22	0.95	29208.73	29209.59

109 1954 TRISPON 49 22 27.322 123 36 19.053

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.10	73	23160.82	.53	22150.40	0.00	1009.89	1005.99	3.90	2.86			
3.26	109	38340.00	.53	22149.44	13343.58	2846.45	2841.91	4.54	5.01	0.52	15179.70	15179.50
3.05	61	52365.98	.53	22148.93	28927.37	1289.15	1285.61	3.54	3.22	0.95	29206.11	29206.99

109 1958 TRISPON 49 22 7.843 123 35 17.848

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.11	72	23161.47	.53	22150.40	0.00	1010.54	1006.76	3.78	2.87			
3.25	109	38343.85	.53	22149.44	13343.58	2850.30	2845.91	4.39	5.01	0.52	15182.90	15182.73
3.01	61	52361.60	.53	22148.93	28927.37	1284.77	1281.17	3.60	3.23	0.95	29201.08	29201.78

109 20 0 TRISPON 49 21 58.825 123 34 49.169

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.12	72	23161.84	.53	22150.40	0.00	1010.91	1007.12	3.79	2.87			
3.26	110	38345.71	.53	22149.44	13343.58	2852.16	2847.77	4.39	5.02	0.52	15184.39	15184.23
3.03	60	52359.42	.53	22148.93	28927.37	1282.59	1279.10	3.49	3.23	0.95	29198.53	29199.35

109 2010 TRISPON 49 21 13.279 123 32 18.373

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.03	72	23163.28	.53	22150.40	0.00	1012.35	1008.88	3.47	2.84			
3.25	110	38355.46	.53	22149.44	13343.58	2861.91	2857.43	4.48	5.01	0.52	15192.70	15192.13
3.02	61	52348.82	.53	22148.93	28927.37	1271.99	1268.33	3.66	3.33	0.95	29186.49	29186.82

109 2012 TRISPON 49 21 6.213 123 31 48.360

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.00	72	23163.51	.53	22150.40	0.00	1012.58	1009.05	3.53	2.76			
3.25	109	38357.50	.53	22149.44	13343.58	2863.95	2859.18	4.77	5.03	0.52	15194.51	15193.71
3.00	61	52346.74	.53	22148.93	28927.37	1269.91	1266.32	3.59	3.36	0.95	29184.18	29184.64

109 2014 TRISPON 49 20 56.353 123 31 18.944

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.05	73	23163.75	.53	22150.40	0.00	1012.82	1009.51	3.31	2.75			
3.24	110	38359.50	.53	22149.44	13343.58	2865.95	2861.15	4.80	5.03	0.52	15196.27	15195.22
2.99	61	52344.60	.53	22148.93	28927.37	1267.77	1264.15	3.62	3.36	0.95	29181.80	29182.01

109 2016 TRISPON 49 20 47.440 123 30 48.558

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.12	72	23164.07	.53	22150.40	0.00	1013.14	1009.86	3.28	2.62			
3.24	109	38361.41	.53	22149.44	13343.58	2867.86	2863.07	4.79	5.04	0.52	15197.86	15196.79
2.98	61	52342.43	.53	22148.93	28927.37	1265.60	1262.00	3.60	3.39	0.95	29179.31	29179.51

109 2020 TRISPON 49 20 29.689 123 29 45.108

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
3.07	71	23164.84	.53	22150.40	0.00	1013.91	1010.52	3.39	2.71				
3.26	110	38365.45	.53	22149.44	13343.58	2871.90	2867.02	4.88	5.04	0.52	15201.13	15200.08	
3.56	61	52338.29	.53	22148.93	28927.37	0.00	0.00	0.00	0.00	0.95	0.00	0.00	T

109 2022 TRISPON 49 20 21.308 123 29 16.263

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.07	71	23165.13	.53	22150.40	0.00	1014.20	1010.86	3.34	2.72			
3.28	110	38367.29	.53	22149.44	13343.58	2873.74	2868.84	4.90	5.04	0.52	15202.68	15201.56
2.98	61	52335.91	.53	22148.93	28927.37	1259.08	1255.53	3.55	3.40	0.95	29171.73	29172.04

109 2026 TRISPON 49 20 4.984 123 28 15.875

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.04	70	23165.77	.53	22150.40	0.00	1014.84	1011.46	3.38	2.71			
3.33	110	38370.74	.53	22149.44	13343.58	2877.19	2872.55	4.64	5.04	0.52	15205.49	15204.67
2.99	60	52331.82	.53	22148.93	28927.37	1254.99	1251.35	3.64	3.43	0.95	29167.00	29167.26

109 2028 TRISPON 49 19 57.401 123 27 44.976

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.07	70	23166.17	.53	22150.40	0.00	1015.24	1011.70	3.54	2.65			
3.33	111	38372.68	.53	22149.44	13343.58	2879.13	2874.39	4.74	5.03	0.52	15207.03	15206.27
2.98	60	52329.74	.53	22148.93	28927.37	1252.91	1249.27	3.64	3.45	0.95	29164.52	29164.94

109 2030 TRISPON 49 19 49.118 123 27 14.450

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.04	71	23166.47	.53	22150.40	0.00	1015.54	1012.02	3.52	2.66			
3.34	111	38374.62	.53	22149.44	13343.58	2881.07	2876.26	4.81	5.02	0.52	15208.67	15207.82
3.00	60	52327.67	.53	22148.93	28927.37	1250.84	1247.16	3.68	3.45	0.95	29162.15	29162.51

109 2032 TRISPON 49 19 40.927 123 26 43.614

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
3.00	71	23166.90	.53	22150.40	0.00	1015.97	1012.33	3.64	2.66				
3.31	111	38376.07	.53	22149.44	13343.58	2882.52	2878.15	4.37	5.02	0.52	15209.69	15209.40	
3.00	60	52325.55	.53	22148.93	28927.37	1248.72	1245.03	3.69	3.46	0.95	29159.60	29160.07	

109 2038 TRISPON 49 19 15.020 123 25 13.701

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
3.07	70	23168.08	.53	22150.40	0.00	1017.15	1013.45	3.70	2.74				
3.45	117	38382.73	.53	22149.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00	T
2.96	61	52319.27	.53	22148.93	28927.37	1242.44	1238.71	3.73	3.49	0.95	29152.14	29152.63	

109 2040 TRISPON 49 19 6.482 123 24 42.129

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
3.07	70	23168.47	.53	22150.40	0.00	1017.54	1013.80	3.74	2.75				
3.49	119	38384.56	.53	22149.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00	T
2.98	60	52317.14	.53	22148.93	28927.37	1240.31	1236.53	3.78	3.50	0.95	29149.62	29150.10	

109 2042 TRISPON 49 18 57.579 123 24 11.121

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
2.99	70	23168.83	.54	22150.40	0.00	1017.95	1014.19	3.76	2.79				
3.54	122	38386.87	.54	22149.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00	T
2.99	60	52314.92	.54	22148.93	28927.37	1238.08	1234.34	3.74	3.49	0.95	29146.98	29147.52	

109 2044 TRISPON 49 18 49.353 123 23 40.117

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
3.05	70	23169.13	.54	22150.40	0.00	1018.25	1014.53	3.72	2.77				
3.60	125	38388.77	.54	22149.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00	T
2.96	60	52312.77	.54	22148.93	28927.37	1235.93	1232.21	3.72	3.50	0.95	29144.53	29145.05	

109 2046 TRISPON 49 18 40.927 123 23 10.411

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
2.97	70	23169.46	.54	22150.40	0.00	1018.52	1014.91	3.61	2.72				
3.67	126	38391.53	.54	22149.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00	T
2.94	60	52310.66	.54	22148.93	28927.37	1233.82	1230.13	3.69	3.52	0.95	29142.15	29142.59	

109 2048 TRISPON 49 18 32.097 123 22 38.959

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
2.99	70	23169.71	.54	22150.40	0.00	1018.77	1015.31	3.46	2.66				
3.72	127	38394.16	.54	22149.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00	T
2.96	62	52308.54	.54	22148.93	28927.37	1231.70	1227.94	3.76	3.57	0.95	29139.78	29140.00	

109 2050 TRISPON 49 18 23.723 123 22 8.841

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
3.01	70	23169.92	.54	22150.40	0.00	1018.98	1015.69	3.29	2.58				
3.78	127	38395.85	.54	22149.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00	T
2.93	60	52306.44	.54	22148.93	28927.37	1229.60	1225.85	3.75	3.59	0.95	29137.47	29137.53	

109 2052 TRISPON 49 18 15.243 123 21 39.654

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
3.05	71	23170.12	.54	22150.40	0.00	1019.18	1016.10	3.08	2.52				
3.89	127	38397.25	.54	22149.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00	T
2.93	60	52304.38	.54	22148.93	28927.37	1227.54	1223.79	3.75	3.59	0.95	29135.21	29135.06	

109 2054 TRISPON 49 18 6.940 123 21 10.121

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
3.05	71	23170.37	.54	22150.40	0.00	1019.43	1016.49	2.94	2.40				
3.89	127	38399.20	.54	22149.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00	T
2.93	60	52302.31	.54	22148.93	28927.37	1225.47	1221.73	3.74	3.60	0.95	29132.89	29132.61	

109 2056 TRISPON 49 17 58.347 123 20 40.941

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
3.10	73	23170.71	.54	22150.40	0.00	1019.77	1016.91	2.86	2.37				
3.95	127	38401.13	.54	22149.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00	T
2.94	60	52300.27	.54	22148.93	28927.37	1223.43	1219.67	3.76	3.62	0.95	29130.51	29130.13	

109 2058 TRISPON 49 17 46.955 123 20 17.355

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
3.09	71	23171.19	.54	22150.40	0.00	1020.25	1017.71	2.54	2.37				
3.99	127	38402.87	.54	22149.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00	T
2.93	60	52298.22	.54	22148.93	28927.37	1221.38	1217.70	3.68	3.62	0.95	29127.98	29127.36	

109 21 0 TRISPON 49 17 25.525 123 20 22.428

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
3.05	71	23173.22	.54	22150.40	0.00	1022.28	1019.94	2.34	2.37				
4.04	127	38404.99	.54	22149.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00	T
2.91	60	52296.82	.54	22148.93	28927.37	1219.98	1216.49	3.49	3.63	0.95	29124.55	29123.92	

109 21 2 1D + OR 49 17 4.970 123 20 27.138

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
3.07	72	23175.71	.54	22150.40	0.00	1024.77	1022.08	2.69	2.37				
4.14	127	38406.00	.54	22149.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00	T
2.92	60	52295.78	.54	22148.93	28927.37	1218.94	1215.33	3.61	3.62	0.95	29121.02	29120.62	

109 21 4 TRISPON 49 16 44.416 123 20 31.840

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
3.07	71	23177.97	.54	22150.40	0.00	1027.03	1024.22	2.81	2.37				
4.22	127	38407.75	.54	22149.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00	T
2.96	60	52294.67	.54	22148.93	28927.37	1217.83	1214.17	3.66	3.62	0.95	29117.65	29117.32	

109 21 6 TRISPON 49 16 24.205 123 20 37.080

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
3.12	71	23180.12	.54	22150.40	0.00	1029.18	1026.33	2.85	2.37				
4.32	127	38409.21	.54	22149.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00	T
2.96	60	52293.50	.54	22148.93	28927.37	1216.66	1213.06	3.60	3.56	0.95	29114.33	29114.10	

109 21 8 TRISPON 49 16 3.679 123 20 41.804

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
3.09	71	23182.23	.54	22150.40	0.00	1031.29	1028.47	2.82	2.36				
4.40	127	38400.64	.54	22149.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00	T
2.97	61	52292.33	.54	22148.93	28927.37	1215.49	1211.91	3.58	3.55	0.95	29111.05	29110.81	

109 2110 TRISPON 49 15 43.311 123 20 46.361

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
3.13	71	23184.32	.54	22150.40	0.00	1033.38	1030.58	2.80	2.36				
5.00	127	38402.54	.54	22149.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00	T
2.96	60	52291.17	.54	22148.93	28927.37	1214.33	1210.76	3.57	3.53	0.95	29107.80	29107.55	

109 2112 TRISPON 49 15 23.117 123 20 51.009

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
3.16	71	23186.42	.54	22150.40	0.00	1035.48	1032.68	2.80	2.36				
5.00	127	38404.39	.54	22149.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00	T
2.97	60	52290.03	.54	22148.93	28927.37	1213.19	1209.64	3.55	3.51	0.95	29104.56	29104.33	

109 2114 TRISPON 49 15 2.868 123 20 55.819

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
3.13	71	23188.53	.54	22150.40	0.00	1037.59	1034.79	2.80	2.35				
5.00	127	38406.32	.54	22149.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00	T
2.96	60	52288.91	.54	22148.93	28927.37	1212.07	1208.51	3.56	3.42	0.95	29101.33	29101.09	

109 2116 TRISPON 49 14 42.543 123 20 59.983

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
3.09	71	23190.64	.54	22150.40	0.00	1039.70	1036.90	2.80	2.35				
5.00	127	38407.35	.54	22149.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00	T
2.99	60	52287.76	.54	22148.93	28927.37	1210.92	1207.36	3.56	3.42	0.95	29098.07	29097.83	

109 2118 TRISPON 49 14 22.070 123 21 4.197

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
3.12	72	23192.76	.54	22150.40	0.00	1041.82	1039.02	2.80	2.35				
5.00	127	38408.53	.54	22149.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00	T
2.96	61	52286.59	.54	22148.93	28927.37	1209.75	1206.20	3.55	3.40	0.95	29094.78	29094.55	

109 2120 TRISPON 49 14 1.815 123 21 8.323

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
3.10	89	23194.87	.54	22150.40	0.00	1043.93	1041.12	2.81	2.35				
5.00	127	38409.71	.54	22149.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00	T
3.00	60	52285.41	.54	22148.93	28927.37	1208.57	1205.05	3.52	3.39	0.95	29091.49	29091.30	

109 2122 1D + DR 49 13 41.456 123 21 12.693

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
3.08	72	23196.96	.54	22150.40	0.00	1046.02	1043.24	2.78	2.34				
5.00	127	38410.93	.54	22149.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00	T
2.98	59	52284.24	.54	22148.93	28927.37	1207.40	1203.91	3.49	3.37	0.95	29088.23	29088.04	

109 2124 1D + DR 49 13 21.095 123 21 17.066

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
3.10	71	23199.13	.54	22150.40	0.00	1048.16	1045.35	2.81	2.34				
5.00	127	38412.79	.54	22149.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00	T
3.01	60	52283.09	.54	22148.93	28927.37	1206.25	1202.77	3.48	3.36	0.95	29084.94	29084.79	

109 2126 1D + DR 49 13 .733 123 21 21.430

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
3.12	72	23201.21	.54	22150.40	0.00	1050.27	1047.47	2.80	2.34				
5.00	126	38414.50	.54	22149.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00	T
2.99	60	52281.96	.54	22148.93	28927.37	1205.12	1201.64	3.48	3.35	0.95	29081.70	29081.54	

109 2128 TRISPON 49 12 40.372 123 21 25.767

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
3.10	71	23203.30	.54	22150.40	0.00	1052.36	1049.58	2.78	2.34				
5.00	127	38416.31	.54	22149.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00	T
3.01	60	52280.85	.54	22148.93	28927.37	1204.01	1200.50	3.51	3.35	0.95	29078.50	29078.29	

109 2130 TRISPON 49 12 19.979 123 21 30.155

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
3.13	71	23205.42	.54	22150.40	0.00	1054.48	1051.70	2.78	2.33				
5.00	127	38418.01	.54	22149.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00	T
2.97	59	52279.72	.54	22148.93	28927.37	1202.88	1199.37	3.51	3.27	0.95	29075.25	29075.04	

109 2132 TRISPON 49 11 59.392 123 21 35.080

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
3.08	71	23207.57	.54	22150.40	0.00	1056.63	1053.84	2.79	2.33				
5.00	127	38419.65	.54	22149.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00	T
2.99	60	52278.60	.54	22148.93	28927.37	1201.76	1198.26	3.50	3.27	0.95	29071.98	29071.79	

109 2134 TRISPON 49 11 38.796 123 21 40.233

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
3.07	70	23209.71	.54	22150.40	0.00	1058.77	1055.99	2.78	2.33				
5.00	127	38421.35	.54	22149.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00	T
3.02	60	52277.46	.54	22148.93	28927.37	1200.62	1197.16	3.46	3.28	0.95	29068.70	29068.54	

109 2136 TRISPON 49 11 18.129 123 21 45.115

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
3.10	71	23211.85	.55	22150.40	0.00	1060.90	1058.14	2.76	2.33				
5.00	127	38423.10	.55	22149.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00	T
2.98	61	52276.34	.55	22148.93	28927.37	1199.49	1196.03	3.46	3.26	0.95	29065.44	29065.26	

109 2138 TRISPON 49 10 57.557 123 21 50.097

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
3.08	71	23214.00	.55	22150.40	0.00	1063.05	1060.28	2.77	2.32				
5.00	127	38424.72	.55	22149.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00	T
2.99	61	52275.22	.55	22148.93	28927.37	1198.37	1194.93	3.44	3.07	0.95	29062.17	29062.02	

109 2140 TRISPON 49 10 36.947 123 21 54.820

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
3.08	71	23216.17	.55	22150.40	0.00	1065.22	1062.43	2.79	2.32				
5.00	127	38425.75	.55	22149.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00	T
3.00	59	52274.10	.55	22148.93	28927.37	1197.25	1193.82	3.43	3.06	0.95	29058.88	29058.76	

109 2142 TRISPON 49 10 16.828 123 21 59.572

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
3.13	70	23218.32	.55	22150.40	0.00	1067.37	1064.52	2.85	2.32				
5.00	127	38427.24	.55	22149.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00	T
2.97	59	52272.98	.55	22148.93	28927.37	1196.13	1192.74	3.39	3.03	0.95	29055.61	29055.59	

109 2144 TRISPON 49 9 55.353 123 22 3.501

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
3.10	71	23220.46	.55	22150.40	0.00	1069.51	1066.74	2.77	2.32				
5.00	127	38428.53	.55	22149.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00	T
2.98	60	52271.83	.55	22148.93	28927.37	1194.98	1191.54	3.44	3.01	0.95	29052.32	29052.17	

109 2146 TRISPON 49 9 35.305 123 22 7.603

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
3.11	71	23222.46	.55	22150.40	0.00	1071.51	1068.82	2.69	2.32				
5.00	127	38430.73	.55	22149.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00	T
2.96	60	52270.77	.55	22148.93	28927.37	1193.92	1190.44	3.48	2.99	0.95	29049.26	29048.99	

109 2148 TRISPON 49 9 17.189 123 22 11.460

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
3.06	71	23224.42	.55	22150.40	0.00	1073.47	1070.70	2.77	2.31				
5.00	127	38433.07	.55	22149.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00	T
2.99	60	52269.74	.55	22148.93	28927.37	1192.89	1189.45	3.44	2.98	0.95	29046.27	29046.12	

109 2150 TRISPON 49 8 58.167 123 22 15.882

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
3.07	71	23226.38	.55	22150.40	0.00	1075.43	1072.68	2.75	2.31				
5.00	113	38471.30	.55	22149.44	13343.58	2977.73	2942.94	34.79	4.73	0.52	15245.44	15213.84	S,T
2.98	60	52268.71	.55	22148.93	28927.37	1191.86	1188.44	3.42	2.97	0.95	29043.28	29043.13	

109 2152 TRISPON 49 8 39.339 123 22 20.050

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
3.05	71	23228.37	.55	22150.40	0.00	1077.42	1074.64	2.78	2.31				
5.00	86	38471.35	.55	22149.44	13343.58	2977.78	2944.38	33.40	4.73	0.52	15243.50	15213.32	S
2.99	60	52267.69	.55	22148.93	28927.37	1190.84	1187.43	3.41	2.96	0.95	29040.27	29040.16	

109 2154 TRISPON 49 8 20.049 123 22 24.528

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
3.09	70	23230.36	.55	22150.40	0.00	1079.41	1076.65	2.76	2.31				
3.83	86	38472.94	.55	22149.44	13343.58	2979.37	2945.85	33.52	4.72	0.52	15243.10	15212.78	S
2.96	60	52266.67	.55	22148.93	28927.37	1189.82	1186.41	3.41	2.95	0.95	29037.26	29037.13	

109 2156 TRISPON 49 8 .695 123 22 28.972

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
3.08	71	23232.33	.55	22150.40	0.00	1081.44	1078.66	2.78	2.31				
3.28	85	38474.57	.55	22149.44	13343.58	2981.00	2947.33	33.67	4.71	0.52	15242.70	15212.25	S
2.99	60	52265.65	.55	22148.93	28927.37	1188.80	1185.39	3.41	2.89	0.95	29034.21	29034.10	

109 2158 TRISPON 49 7 41.430 123 22 33.721

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
3.05	70	23234.42	.55	22150.40	0.00	1083.47	1080.67	2.80	2.30				
2.99	84	38476.13	.55	22149.44	13343.58	2982.56	2948.78	33.78	4.70	0.52	15242.23	15211.69	S
2.96	59	52264.63	.55	22148.93	28927.37	1187.78	1184.39	3.39	2.89	0.95	29031.16	29031.09	

109 22 0 1D + DR 49 7 22.052 123 22 39.228

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
3.10	70	23236.47	.55	22150.40	0.00	1085.52	1082.71	2.81	2.30				
2.90	85	38477.48	.55	22149.44	13343.58	2983.91	2950.22	33.69	4.69	0.52	15241.53	15211.09	S
2.96	60	52263.63	.55	22148.93	28927.37	1186.78	1183.42	3.36	2.85	0.95	29028.11	29028.08	

109 22 2 TRISPON 49 7 2.673 123 22 44.725

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
3.10	71	23238.52	.55	22150.40	0.00	1087.57	1084.74	2.83	2.30				
2.93	85	38478.92	.55	22149.44	13343.58	2985.35	2951.67	33.68	4.68	0.52	15240.92	15210.51	S
2.96	60	52262.66	.55	22148.93	28927.37	1185.81	1182.46	3.35	2.87	0.95	29025.09	29025.09	

109 22 4 TRISPON 49 6 42.403 123 22 51.448

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
3.07	71	23240.60	.55	22150.40	0.00	1089.65	1086.88	2.77	2.30				
2.87	85	38480.24	.55	22149.44	13343.58	2986.67	2953.14	33.53	4.67	0.52	15240.16	15209.84	S
2.98	60	52261.72	.55	22148.93	28927.37	1184.87	1181.51	3.36	2.87	0.95	29022.07	29022.00	

109 22 6 TRISPON 49 6 23.133 123 22 55.743

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
3.06	71	23242.64	.55	22150.40	0.00	1091.69	1088.88	2.81	2.30				
2.85	84	38481.66	.55	22149.44	13343.58	2988.09	2954.62	33.47	4.66	0.52	15239.54	15209.32	S
3.01	61	52260.71	.55	22148.93	28927.37	1183.86	1180.50	3.36	2.87	0.95	29019.02	29018.99	

109 22 8 TRISPON 49 6 3.241 123 23 3.244

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
3.07	70	23244.72	.55	22150.40	0.00	1093.77	1090.99	2.78	2.29				
2.78	83	38483.05	.55	22149.44	13343.58	2989.48	2956.03	33.45	4.64	0.52	15238.85	15208.62	S
2.99	60	52259.82	.55	22148.93	28927.37	1182.97	1179.62	3.35	2.87	0.95	29016.05	29016.00	

109 2210 TRISPON 49 5 43.274 123 23 10.216

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
3.03	71	23246.84	.55	22150.40	0.00	1095.89	1093.11	2.78	2.29				
2.79	84	38484.35	.55	22149.44	13343.58	2990.78	2957.46	33.32	4.63	0.52	15238.03	15207.93	S
2.99	60	52258.96	.55	22148.93	28927.37	1182.11	1178.71	3.40	2.87	0.95	29013.07	29012.97	

109 2212 TRISPON 49 5 22.946 123 23 18.864

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
2.96	70	23249.01	.55	22150.40	0.00	1098.06	1095.28	2.78	2.29				
2.78	83	38485.76	.55	22149.44	13343.58	2992.19	2958.87	33.32	4.63	0.52	15237.27	15207.17	S
3.01	60	52258.09	.55	22148.93	28927.37	1181.24	1177.86	3.38	2.88	0.95	29010.03	29009.95	

109 2216 TRISPON 49 4 40.547 123 23 32.548

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
3.03	70	23253.43	.55	22150.40	0.00	1102.48	1099.75	2.73	2.29				
2.75	83	38488.79	.55	22149.44	13343.58	2995.22	2961.97	33.25	4.62	0.52	15235.88	15205.80	S
3.00	61	52256.19	.55	22148.93	28927.37	1179.34	1175.89	3.45	2.91	0.95	29003.71	29003.51	

109 2218 TRISPON 49 4 20.049 123 23 39.055

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
3.07	71	23255.64	.55	22150.40	0.00	1104.69	1101.91	2.78	2.28				
2.79	84	38490.38	.55	22149.44	13343.58	2996.81	2963.47	33.34	4.61	0.52	15235.26	15205.14	S
3.00	61	52255.19	.55	22148.93	28927.37	1178.34	1174.93	3.41	2.90	0.95	29000.50	29000.39	

109 2220 TRISPON 49 3 58.954 123 23 45.268

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
3.11	71	23257.82	.55	22150.40	0.00	1106.87	1104.13	2.74	2.28				
2.77	83	38491.96	.55	22149.44	13343.58	2998.39	2965.04	33.35	4.61	0.52	15234.66	15204.49	S
2.97	60	52254.18	.55	22148.93	28927.37	1177.33	1173.93	3.40	2.91	0.95	28997.31	28997.17	

109 2222 TRISPON 49 3 38.508 123 23 50.518

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
3.04	71	23259.98	.55	22150.40	0.00	1109.03	1106.26	2.77	2.28				
2.85	84	38493.64	.55	22149.44	13343.58	3000.07	2966.59	33.48	4.60	0.52	15234.18	15203.91	S
3.00	60	52253.14	.55	22148.93	28927.37	1176.29	1172.91	3.38	2.91	0.95	28994.11	28994.02	

109 2224 TRISPON 49 3 18.166 123 23 55.398

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
3.08	70	23262.14	.55	22150.40	0.00	1111.19	1108.38	2.81	2.28				
2.81	83	38495.28	.55	22149.44	13343.58	3001.71	2968.14	33.57	4.59	0.52	15233.66	15203.34	S
2.98	59	52252.12	.55	22148.93	28927.37	1175.27	1171.89	3.38	2.90	0.95	28990.93	28990.88	

109 2226 TRISPON 49 2 56.534 123 24 .055

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
3.03	70	23264.30	.55	22150.40	0.00	1113.35	1110.63	2.72	2.28				
2.85	84	38496.99	.55	22149.44	13343.58	3003.42	2969.82	33.60	4.59	0.52	15233.21	15202.77	S
2.98	60	52251.07	.55	22148.93	28927.37	1174.22	1170.78	3.44	2.86	0.95	28987.72	28987.52	

109 2230 TRISPON 49 2 14.511 123 24 9.149

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
3.04	70	23268.68	.56	22150.40	0.00	1117.72	1114.99	2.73	2.27				
2.80	84	38500.34	.56	22149.44	13343.58	3006.76	2973.06	33.70	4.58	0.52	15232.18	15201.65	S
2.96	60	52248.92	.56	22148.93	28927.37	1172.06	1168.62	3.44	2.90	0.95	28981.19	28981.00	

109 2234 TRISPON 49 1 32.004 123 24 19.417

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
3.08	71	23273.10	.56	22150.40	0.00	1122.14	1119.42	2.72	2.27				
2.85	84	38503.78	.56	22149.44	13343.58	3010.20	2976.31	33.89	4.56	0.52	15231.20	15200.47	S
2.99	60	52246.71	.56	22148.93	28927.37	1169.85	1166.51	3.34	2.90	0.95	28974.56	28974.46	

109 2236 TRISPON 49 1 10.575 123 24 24.288

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
3.09	70	23275.32	.56	22150.40	0.00	1124.36	1121.65	2.71	2.27				
2.89	83	38505.39	.56	22149.44	13343.58	3011.81	2977.96	33.85	4.55	0.52	15230.59	15199.89	S
2.98	61	52245.67	.56	22148.93	28927.37	1168.81	1165.44	3.37	2.90	0.95	28971.30	28971.16	

109 2238 TRISPON 49 0 49.347 123 24 29.259

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
3.14	70	23277.55	.56	22150.40	0.00	1126.59	1123.86	2.73	2.26				
2.87	83	38507.03	.56	22149.44	13343.58	3013.45	2979.59	33.86	4.55	0.52	15230.00	15199.31	S
2.99	61	52244.62	.56	22148.93	28927.37	1167.76	1164.39	3.37	2.88	0.95	28968.02	28967.90	

109 2240 TRISPON 49 0 28.261 123 24 33.880

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
3.12	70	23279.75	.56	22150.40	0.00	1128.79	1126.05	2.74	2.26				
2.88	83	38508.71	.56	22149.44	13343.58	3015.13	2981.23	33.90	4.52	0.52	15229.48	15198.76	S
3.00	60	52243.56	.56	22148.93	28927.37	1166.70	1163.33	3.37	2.87	0.95	28964.76	28964.65	

109 2242 TRISPON 49 0 6.947 123 24 39.223

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
3.02	69	23281.94	.56	22150.40	0.00	1130.98	1128.28	2.70	2.26				
2.84	83	38510.39	.56	22149.44	13343.58	3016.81	2982.85	33.96	4.52	0.52	15228.97	15198.15	S
2.97	60	52242.53	.56	22148.93	28927.37	1165.67	1162.30	3.37	2.87	0.95	28961.54	28961.39	

109 2244 TRISPON 48 59 46.104 123 24 44.757

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
3.09	70	23284.12	.56	22150.40	0.00	1133.16	1130.46	2.70	2.26				
2.87	83	38512.05	.56	22149.44	13343.58	3018.47	2984.43	34.04	4.52	0.52	15228.45	15197.55	S
2.99	60	52241.53	.56	22148.93	28927.37	1164.67	1161.31	3.36	2.89	0.95	28958.36	28958.22	

109 2246 TRISPON 48 59 35.341 123 25 3.073

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
3.18	70	23286.08	.56	22150.40	0.00	1135.12	1131.81	3.31	2.26				
2.97	85	38513.15	.56	22149.44	13343.58	3019.57	2984.67	34.90	4.36	0.52	15227.59	15196.44	S
2.85	62	52241.14	.56	22148.93	28927.37	1164.28	1161.65	2.63	2.96	0.95	28956.01	28957.21	

109 2248 TRISPON 48 59 53.274 123 25 23.961

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
3.23	71	23284.87	.56	22150.40	0.00	1133.91	1130.31	3.60	2.26				
3.04	85	38510.83	.56	22149.44	13343.58	3017.25	2982.34	34.91	4.36	0.52	15226.48	15195.61	S
2.86	61	52243.57	.56	22148.93	28927.37	1166.71	1163.89	2.82	2.93	0.95	28959.65	28960.95	

109 2250 TRISPON 49 0 10.440 123 25 48.759

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
3.14	70	23282.66	.56	22150.40	0.00	1131.70	1128.94	2.76	2.26				
3.00	84	38508.10	.56	22149.44	13343.58	3014.52	2979.93	34.59	4.36	0.52	15225.96	15194.57	S
2.94	60	52246.26	.56	22148.93	28927.37	1169.40	1166.30	3.10	2.89	0.95	28964.55	28964.73	

109 2252 TRISPON 49 0 27.847 123 26 9.509

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
3.01	70	23281.15	.56	22150.40	0.00	1130.19	1127.49	2.70	2.26				
2.93	84	38505.61	.56	22149.44	13343.58	3012.03	2977.66	34.37	4.37	0.52	15224.98	15193.75	S
2.96	60	52248.67	.56	22148.93	28927.37	1171.81	1168.50	3.31	2.88	0.95	28968.47	28968.38	

109 2254 TRISPON 49 0 46.031 123 26 30.601

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
3.07	70	23279.69	.56	22150.40	0.00	1128.73	1125.98	2.75	2.26				
2.92	84	38503.27	.56	22149.44	13343.58	3009.69	2975.31	34.38	4.37	0.52	15224.10	15192.91	S
2.99	60	52250.96	.56	22148.93	28927.37	1174.10	1170.77	3.33	2.88	0.95	28972.22	28972.16	

109 2256 TRISPON 49 1 4.823 123 26 50.618

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
3.00	70	23278.24	.56	22150.40	0.00	1127.28	1124.39	2.89	2.37				
2.86	85	38501.02	.56	22149.44	13343.58	3007.44	2972.94	34.50	4.37	0.52	15223.30	15192.13	S
3.00	60	52253.21	.56	22148.93	28927.37	1176.35	1173.02	3.33	2.87	0.95	28975.92	28976.00	

109 2258 1D + DR 49 1 22.608 123 27 12.490

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
2.96	71	23276.66	.56	22150.40	0.00	1125.70	1122.93	2.77	2.40				
2.89	85	38498.72	.56	22149.44	13343.58	3005.14	2970.59	34.55	4.37	0.52	15222.58	15191.24	S
2.97	102	52255.47	.56	22148.93	28927.37	1178.61	1175.30	3.31	2.86	0.95	28979.76	28979.74	

109 23 0 TRISPON 49 1 40.382 123 27 34.358

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
2.93	71	23275.16	.56	22150.40	0.00	1124.20	1121.47	2.73	2.43				
2.87	86	38496.43	.56	22149.44	13343.58	3002.85	2968.24	34.61	4.38	0.52	15221.79	15190.35	S
3.01	60	52257.78	.56	22148.93	28927.37	1180.92	1177.59	3.33	2.86	0.95	28983.57	28983.49	

109 23 2 TRISPON 49 1 58.996 123 27 55.245

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
2.98	68	23273.64	.56	22150.40	0.00	1122.68	1119.92	2.76	2.49				
2.89	86	38494.11	.56	22149.44	13343.58	3000.53	2965.86	34.67	4.38	0.52	15220.99	15189.52	S
2.98	61	52260.02	.56	22148.93	28927.37	1183.16	1179.88	3.28	2.86	0.95	28987.33	28987.33	

109 23 4 TRISPON 49 2 18.310 123 28 16.438

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
2.98	70	23272.08	.56	22150.40	0.00	1121.12	1118.30	2.82	2.50				
2.82	86	38491.77	.56	22149.44	13343.58	2998.19	2963.41	34.78	4.38	0.52	15220.21	15188.69	S
2.97	60	52262.32	.56	22148.93	28927.37	1185.46	1182.22	3.24	2.86	0.95	28991.19	28991.29	

109 23 6 10 + DR 49 2 36.622 123 28 37.125

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
2.95	69	23270.56	.56	22150.40	0.00	1119.60	1116.78	2.82	2.52				
2.85	85	38489.38	.56	22149.44	13343.58	2995.80	2961.06	34.74	4.38	0.52	15219.34	15187.86	S
2.97	61	52264.60	.56	22148.93	28927.37	1187.74	1184.48	3.26	2.85	0.95	28994.99	28995.07	

109 23 8 TRISPON 49 2 54.908 123 28 57.793

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
2.97	69	23269.03	.56	22150.40	0.00	1118.07	1115.27	2.80	2.53				
2.81	85	38487.02	.56	22149.44	13343.58	2993.44	2958.71	34.73	4.39	0.52	15218.51	15187.02	S
2.96	61	52266.88	.56	22148.93	28927.37	1190.02	1186.73	3.29	2.85	0.95	28998.80	28998.83	

109 2310 TRISPON 49 3 13.670 123 29 18.035

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
2.91	69	23267.48	.56	22150.40	0.00	1116.52	1113.70	2.82	2.52				
2.78	84	38484.69	.56	22149.44	13343.58	2991.11	2956.34	34.77	4.39	0.52	15217.73	15186.22	S
2.98	60	52269.17	.56	22148.93	28927.37	1192.31	1188.99	3.32	2.84	0.95	29002.64	29002.66	

109 2312 10 + DR 49 3 32.707 123 29 37.454

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
2.93	69	23265.92	.56	22150.40	0.00	1114.96	1112.10	2.86	2.54				
2.81	85	38482.36	.56	22149.44	13343.58	2988.78	2953.98	34.80	4.39	0.52	15216.96	15185.46	S
2.98	61	52271.43	.56	22148.93	28927.37	1194.57	1191.22	3.35	2.83	0.95	29006.46	29006.49	

109 2314 TRISPON 49 3 51.723 123 29 56.859

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
2.96	69	23264.39	.56	22150.40	0.00	1113.43	1110.50	2.93	2.51				
2.91	85	38480.06	.56	22149.44	13343.58	2986.48	2951.61	34.87	4.39	0.52	15216.19	15184.69	S
2.97	61	52273.67	.56	22148.93	28927.37	1196.81	1193.46	3.35	2.82	0.95	29010.23	29010.33	

109 2316 TRISPON 49 4 9.691 123 30 19.741

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
2.91	70	23262.90	.56	22150.40	0.00	1111.94	1109.06	2.88	2.51				
2.91	85	38477.80	.56	22149.44	13343.58	2984.22	2949.21	35.01	4.40	0.52	15215.42	15183.73	S
2.99	61	52275.90	.56	22148.93	28927.37	1199.04	1195.81	3.23	2.82	0.95	29013.95	29014.12	

109 2318 TRISPON 49 4 27.070 123 30 38.470

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
2.94	69	23261.45	.56	22150.40	0.00	1110.49	1107.62	2.87	2.52				
2.94	87	38475.52	.56	22149.44	13343.58	2981.94	2947.02	34.92	4.40	0.52	15214.59	15182.98	S
2.97	60	52278.10	.56	22148.93	28927.37	1201.24	1197.90	3.34	2.82	0.95	29017.60	29017.65	

109 2322 TRISPON 49 5 4.215 123 31 21.957

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
2.89	69	23258.60	.57	22150.40	0.00	1107.63	1104.60	3.03	2.51				
2.88	87	38470.96	.57	22149.44	13343.58	2977.37	2942.19	35.18	4.40	0.52	15212.88	15181.17	S
2.97	61	52282.60	.57	22148.93	28927.37	1205.73	1202.56	3.17	2.84	0.95	29024.95	29025.33	

109 2324 TRISPON 49 5 19.476 123 31 42.876

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
2.94	69	23257.33	.57	22150.40	0.00	1106.36	1103.41	2.95	2.47				
2.90	87	38468.67	.57	22149.44	13343.58	2975.08	2940.09	34.99	4.40	0.52	15211.86	15180.26	S
2.96	60	52284.82	.57	22148.93	28927.37	1207.95	1204.64	3.31	2.83	0.95	29028.44	29028.60	

109 2328 TRISPON 49 5 52.674 123 32 27.761

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
2.91	69	23254.77	.57	22150.40	0.00	1103.80	1100.83	2.97	2.50				
2.91	88	38464.25	.57	22149.44	13343.58	2970.66	2935.55	35.11	4.41	0.52	15210.00	15178.30	S
2.94	60	52289.32	.57	22148.93	28927.37	1212.45	1209.13	3.32	2.83	0.95	29035.50	29035.67	

109 2330 TRISPON 49 6 9.995 123 32 50.719

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
2.89	69	23253.44	.57	22150.40	0.00	1102.47	1099.48	2.99	2.52				
2.89	89	38461.93	.57	22149.44	13343.58	2968.34	2933.21	35.13	4.41	0.52	15209.01	15177.31	S
2.97	60	52291.56	.57	22148.93	28927.37	1214.69	1211.45	3.24	2.83	0.95	29039.07	29039.34	

109 2332 TRISPON 49 6 27.843 123 33 11.474

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
2.96	71	23252.07	.57	22150.40	0.00	1101.10	1098.05	3.05	2.53				
2.92	88	38459.64	.57	22149.44	13343.58	2966.05	2930.89	35.16	4.41	0.52	15208.09	15176.42	S
2.96	60	52293.82	.57	22148.93	28927.37	1216.95	1213.68	3.27	2.84	0.95	29042.70	29043.00	

109 2334 TRISPON 49 6 45.805 123 33 30.852

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
3.03	70	23250.67	.57	22150.40	0.00	1099.70	1096.58	3.12	2.56				
2.91	89	38457.30	.57	22149.44	13343.58	2963.71	2928.63	35.08	4.42	0.52	15207.15	15175.63	S
2.97	60	52296.09	.57	22148.93	28927.37	1219.22	1215.85	3.37	2.84	0.95	29046.37	29046.64	

109 2336 TRISPON 49 7 3.263 123 33 53.342

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
2.98	70	23249.27	.57	22150.40	0.00	1098.30	1095.22	3.08	2.57				
2.93	90	38454.94	.57	22149.44	13343.58	2961.35	2926.28	35.07	4.42	0.52	15206.19	15174.64	S
2.96	60	52298.38	.57	22148.93	28927.37	1221.51	1218.15	3.36	2.84	0.95	29050.06	29050.30	

109 2346 TRISPON 49 8 45.303 123 32 41.581

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
2.97	71	23237.83	.57	22150.40	0.00	1086.86	1083.82	3.04	2.56				
3.14	92	38448.93	.57	22149.44	13343.58	2955.34	2920.24	35.10	4.60	0.52	15211.62	15180.00	S
2.97	61	52300.94	.57	22148.93	28927.37	1224.07	1220.72	3.35	2.85	0.95	29064.06	29064.27	

109 2348 TRISPON 49 9 6.082 123 32 32.691

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
2.96	70	23235.47	.57	22150.40	0.00	1084.50	1081.59	2.91	2.56				
3.19	92	38447.55	.57	22149.44	13343.58	2953.96	2918.80	35.16	4.63	0.52	15212.60	15180.79	S
2.97	60	52301.73	.57	22148.93	28927.37	1224.86	1221.56	3.30	2.85	0.95	29067.21	29067.34	

109 2350 TRISPON 49 9 28.401 123 32 18.372

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
2.96	71	23233.15	.57	22150.40	0.00	1082.18	1079.12	3.06	2.57				
3.21	94	38446.20	.57	22149.44	13343.58	2952.61	2917.43	35.18	4.66	0.52	15213.57	15181.89	S
2.94	60	52302.48	.57	22148.93	28927.37	1225.61	1222.22	3.39	2.88	0.95	29070.28	29070.47	

109 2352 TRISPON 49 9 48.955 123 32 7.728

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
2.98	70	23230.82	.57	22150.40	0.00	1079.85	1076.89	2.96	2.57				
3.26	94	38444.92	.57	22149.44	13343.58	2951.33	2916.08	35.25	4.67	0.52	15214.62	15182.77	S
2.96	60	52303.21	.57	22148.93	28927.37	1226.34	1222.96	3.38	2.84	0.95	29073.34	29073.44	

109 2354 TRISPON 49 10 11.848 123 31 51.218

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
2.96	70	23228.49	.57	22150.40	0.00	1077.52	1074.33	3.19	2.58				
3.28	92	38443.78	.57	22149.44	13343.58	2950.19	2914.75	35.44	4.67	0.52	15215.81	15184.00	S
2.99	60	52303.89	.57	22148.93	28927.37	1227.02	1223.54	3.48	2.83	0.95	29076.35	29076.58	

109 2358 TRISPON 49 10 53.380 123 31 27.077

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
2.99	70	23223.82	.57	22150.40	0.00	1072.85	1069.77	3.08	2.53				
3.17	89	38441.04	.57	22149.44	13343.58	2947.45	2912.11	35.34	4.68	0.52	15217.74	15185.92	S
2.96	60	52305.20	.57	22148.93	28927.37	1228.33	1224.92	3.41	2.82	0.95	29082.33	29082.52	

110 0 0 TRISPON 49 11 14.714 123 31 13.851

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
2.88	70	23221.48	.57	22150.40	0.00	1070.51	1067.42	3.09	2.53				
3.10	87	38439.62	.57	22149.44	13343.58	2946.03	2910.80	35.23	4.68	0.52	15218.66	15186.96	S
3.01	60	52305.86	.57	22148.93	28927.37	1228.99	1225.60	3.39	2.82	0.95	29085.33	29085.55	

110 0 2 TRISPON 49 11 35.441 123 31 .927

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
3.12	109	23219.11	.57	22150.40	0.00	1068.14	1065.13	3.01	2.54				
3.02	88	38437.97	.57	22149.44	13343.58	2944.38	2909.52	34.86	4.70	0.52	15219.38	15187.97	S
2.99	62	52306.54	.57	22148.93	28927.37	1229.67	1226.25	3.42	2.82	0.95	29088.38	29088.49	

110 0 4 TRISPON 49 11 56.184 123 30 47.314

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
3.09	114	23216.47	.57	22150.40	0.00	0.00	0.00	0.00	0.00				T
2.94	88	38436.42	.57	22149.44	13343.58	2942.83	2908.27	34.56	4.70	0.52	0.00	0.00	S
3.02	63	52307.21	.57	22148.93	28927.37	1230.34	1226.87	3.47	2.82	0.95	0.00	0.00	

110 0 6 TRISPON 49 12 16.385 123 30 36.274

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
3.14	119	23214.13	.57	22150.40	0.00	0.00	0.00	0.00	0.00				T
2.87	87	38434.91	.57	22149.44	13343.58	2941.32	2906.96	34.36	4.70	0.52	0.00	0.00	S
2.97	63	52307.88	.57	22148.93	28927.37	1231.01	1227.60	3.41	2.83	0.95	0.00	0.00	

110 0 8 TRISPON 49 12 37.089 123 30 23.985

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
3.21	124	23212.01	.57	22150.40	0.00	0.00	0.00	0.00	0.00				T
2.85	87	38433.45	.57	22149.44	13343.58	2939.86	2905.67	34.19	4.71	0.52	0.00	0.00	S
3.02	60	52308.56	.57	22148.93	28927.37	1231.69	1228.30	3.39	2.82	0.95	0.00	0.00	

110 012 TRISPON 49 13 18.911 123 30 1.729

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
3.28	127	23209.26	.57	22150.40	0.00	0.00	0.00	0.00	0.00				T
2.80	86	38430.45	.57	22149.44	13343.58	2936.86	2902.95	33.91	4.72	0.52	0.00	0.00	S
3.07	64	52310.12	.57	22148.93	28927.37	1233.25	1229.85	3.40	2.91	0.95	0.00	0.00	

110 014 TRISPON 49 13 40.242 123 29 50.073

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
3.37	127	23208.75	.57	22150.40	0.00	0.00	0.00	0.00	0.00				T
2.78	86	38429.01	.57	22149.44	13343.58	2935.42	2901.58	33.84	4.74	0.52	0.00	0.00	S
3.01	62	52310.95	.57	22148.93	28927.37	1234.08	1230.64	3.44	2.92	0.95	0.00	0.00	

110 016 TRISPON 49 14 .947 123 29 38.432

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
3.48	127	23208.71	.58	22150.40	0.00	0.00	0.00	0.00	0.00				T
2.79	87	38427.67	.58	22149.44	13343.58	2934.07	2900.26	33.81	4.78	0.52	0.00	0.00	S
3.03	62	52311.74	.58	22148.93	28927.37	1234.86	1231.37	3.49	2.94	0.95	0.00	0.00	

110 .018 TRISPON 49 14 21.453 123 29 27.573

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
3.57	127	23210.06	.58	22150.40	0.00	0.00	0.00	0.00	0.00				T
2.75	89	38426.28	.58	22149.44	13343.58	2932.68	2898.93	33.75	4.80	0.52	0.00	0.00	S
3.03	62	52312.51	.58	22148.93	28927.37	1235.63	1232.15	3.48	2.96	0.95	0.00	0.00	

110 020 TRISPON 49 14 42.264 123 29 16.300

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
3.64	127	23211.83	.58	22150.40	0.00	0.00	0.00	0.00	0.00				T
2.78	88	38425.04	.58	22149.44	13343.58	2931.44	2897.59	33.85	4.80	0.52	0.00	0.00	S
3.03	62	52313.28	.58	22148.93	28927.37	1236.40	1232.93	3.47	3.01	0.95	0.00	0.00	

110 024 TRISPON 49 15 23.951 123 28 53.652

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
4.11	111	23216.32	.58	22150.40	0.00	0.00	0.00	0.00	0.00				T
2.88	88	38422.42	.58	22149.44	13343.58	2928.82	2894.91	33.91	4.82	0.52	0.00	0.00	S
3.02	62	52314.86	.58	22148.93	28927.37	1237.98	1234.51	3.47	3.19	0.95	0.00	0.00	

110 026 TRISPON 49 15 45.047 123 28 39.881

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
5.00	63	23212.97	.58	22150.40	0.00	0.00	0.00	0.00	0.00				T
3.10	88	38420.92	.58	22149.44	13343.58	2927.32	2893.65	33.67	4.83	0.52	0.00	0.00	S
3.00	62	52315.66	.58	22148.93	28927.37	1238.78	1235.19	3.59	3.18	0.95	0.00	0.00	

110 030 TRISPON 49 16 26.993 123 28 19.817

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
3.86	66	23197.91	.58	22150.40	0.00	0.00	0.00	0.00	0.00				T
2.81	86	38418.06	.58	22149.44	13343.58	2924.46	2890.86	33.60	4.86	0.52	0.00	0.00	S
3.02	60	52317.29	.58	22148.93	28927.37	1240.41	1236.94	3.47	3.23	0.95	0.00	0.00	

110 046 TRISPON 49 19 13.476 123 27 4.270

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
2.99	72	23169.99	.58	22150.40	0.00	1019.01	1015.41	3.60	2.65				
2.66	86	38406.23	.58	22149.44	13343.58	2912.63	2879.67	32.96	5.00	0.52	15236.76	15207.84	S
3.00	60	52324.78	.58	22148.93	28927.37	1247.90	1244.23	3.67	3.42	0.95	29155.74	29156.19	

110 048 TRISPON 49 19 35.538 123 26 56.943

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
2.99	72	23167.74	.58	22150.40	0.00	1016.76	1013.08	3.68	2.66				
2.62	86	38404.57	.58	22149.44	13343.58	2910.97	2878.09	32.88	5.02	0.52	15237.35	15208.59	S
3.00	60	52325.80	.58	22148.93	28927.37	1248.92	1245.34	3.58	3.46	0.95	29159.01	29159.63	

110 052 TRISPON 49 20 18.041 123 26 41.203

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
2.95	71	23163.20	.58	22150.40	0.00	1012.22	1008.57	3.65	2.67				
2.51	88	38401.50	.58	22149.44	13343.58	2907.90	2875.10	32.80	5.03	0.52	15238.82	15210.11	S
3.00	60	52327.90	.58	22148.93	28927.37	1251.02	1247.43	3.59	3.46	0.95	29165.65	29166.23	

110 054 TRISPON 49 20 39.743 123 26 32.981

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
2.96	72	23160.89	.58	22150.40	0.00	1009.91	1006.27	3.64	2.68				
2.57	87	38400.00	.58	22149.44	13343.58	2906.40	2873.59	32.81	5.03	0.52	15239.63	15210.90	S
2.94	61	52329.06	.58	22148.93	28927.37	1252.18	1248.49	3.69	3.50	0.95	29169.12	29169.59	

110 056 TRISPON 49 21 1.767 123 26 23.881

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
2.96	72	23158.55	.58	22150.40	0.00	1007.57	1003.92	3.65	2.68				
2.58	87	38398.46	.58	22149.44	13343.58	2904.86	2872.08	32.78	5.04	0.52	15240.43	15211.74	S
2.96	61	52330.19	.58	22148.93	28927.37	1253.31	1249.53	3.78	3.59	0.95	29172.59	29172.98	

110 058 TRISPON 49 21 24.033 123 26 15.336

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
3.03	72	23156.20	.58	22150.40	0.00	1005.22	1001.55	3.67	2.69				
2.56	87	38397.01	.58	22149.44	13343.58	2903.41	2870.54	32.37	5.04	0.52	15241.33	15212.57	S
2.96	61	52331.29	.58	22148.93	28927.37	1254.41	1250.62	3.79	3.65	0.95	29176.04	29176.44	

110 1824 TRISPON 49 21 22.568 123 34 9.843

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.00	74	27364.75	.78	26350.40	0.00	1013.57	1009.99	3.58	2.87			
0.00	0	0.00	.78	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.96	62	56554.85	.78	26348.93	28927.37	1277.77	1274.65	3.12	3.29	0.95	29191.05	29192.03

110 1826 TRISPON 49 21 2.185 123 34 24.961

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.00	73	27367.28	.78	26350.40	0.00	1016.10	1012.29	3.81	2.87			
0.00	0	0.00	.78	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.89	61	56554.07	.78	26348.93	28927.37	1276.99	1274.07	2.92	3.24	0.95	29187.74	29189.15

110 1828 TRISPON 49 20 43.147 123 34 39.628

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.99	74	27369.54	.78	26350.40	0.00	1018.36	1014.45	3.91	2.86			
0.00	0	0.00	.78	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.89	61	56553.56	.78	26348.93	28927.37	1276.48	1273.55	2.93	3.22	0.95	29184.97	29186.47

110 1830 TRISPON 49 20 25.503 123 34 58.460

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.03	72	27371.62	.78	26350.40	0.00	1020.44	1016.55	3.89	2.84			
0.00	0	0.00	.78	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.88	62	56553.22	.78	26348.93	28927.37	1276.14	1273.35	2.79	3.19	0.95	29182.55	29184.17

110 1832 TRISPON 49 20 31.240 123 35 28.736

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.93	77	27372.95	.78	26350.40	0.00	1021.77	1016.54	5.23	2.82			
0.00	0	0.00	.78	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.43	67	56553.91	.78	26348.93	28927.37	1276.83	1275.29	1.54	3.17	0.95	29181.91	29186.12

110 1834 TRISPON 49 20 40.854 123 35 55.724

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.86	77	27372.46	.78	26350.40	0.00	1021.28	1016.09	5.19	2.83			
0.00	0	0.00	.78	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.56	65	56556.27	.78	26348.93	28927.37	1279.19	1277.32	1.87	3.16	0.95	29184.76	29188.60

110 1836 TRISPON 49 20 50.354 123 36 24.908

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.08	74	27371.42	.78	26350.40	0.00	1020.24	1015.70	4.54	2.83			
0.00	0	0.00	.78	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.82	63	56558.97	.78	26348.93	28927.37	1281.89	1279.46	2.43	3.16	0.95	29188.50	29191.13

110 1844 TRISPON 49 21 27.330 123 38 11.780

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.01	73	27368.65	.78	26350.40	0.00	1017.47	1014.09	3.38	2.81			
0.00	0	0.00	.78	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.01	61	56568.08	.78	26348.93	28927.37	1291.00	1287.43	3.57	3.07	0.95	29200.38	29200.71

110 1846 TRISPON 49 21 36.780 123 38 40.173

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.95	73	27368.39	.78	26350.40	0.00	1017.21	1013.71	3.50	2.81			
0.00	0	0.00	.78	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.98	61	56569.98	.78	26348.93	28927.37	1292.90	1289.52	3.38	3.07	0.95	29202.54	29203.18

110 1848 TRISPON 43 21 46.482 123 39 8.121

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.01	73	27368.08	.78	26350.40	0.00	1016.90	1013.30	3.60	2.81			
0.00	0	0.00	.78	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.96	61	56571.97	.78	26348.93	28927.37	1294.89	1291.61	3.28	3.07	0.95	29204.84	29205.68

110 1850 TRISPON 49 21 55.638 123 39 37.009

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.04	73	27367.68	.78	26350.40	0.00	1016.50	1012.97	3.53	2.83			
0.00	0	0.00	.78	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.95	61	56574.03	.78	26348.93	28927.37	1296.95	1293.71	3.24	3.06	0.95	29207.30	29208.11

110 1852 TRISPON 49 22 5.080 123 40 4.409

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.00	73	27367.24	.78	26350.40	0.00	1016.06	1012.58	3.48	2.83			
0.00	0	0.00	.78	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.96	60	56576.12	.78	26348.93	28927.37	1299.04	1295.75	3.29	3.06	0.95	29209.83	29210.54

110 1854 TRISPON 49 22 14.648 123 40 32.534

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.00	73	27366.80	.78	26350.40	0.00	1015.62	1012.20	3.42	2.83			
0.00	0	0.00	.78	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.97	61	56578.25	.78	26348.93	28927.37	1301.17	1297.84	3.33	3.06	0.95	29212.40	29213.01

110 1856 TRISPON 49 22 24.853 123 41 .541

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.97	72	27366.39	.78	26350.40	0.00	1015.21	1011.76	3.45	2.83			
0.00	0	0.00	.78	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.98	61	56580.34	.78	26348.93	28927.37	1303.26	1299.96	3.30	3.07	0.95	29214.90	29215.57

110 1858 TRISPON 49 22 34.081 123 41 30.240

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.97	73	27366.03	.79	26350.40	0.00	1014.84	1011.44	3.40	2.81			
0.00	0	0.00	.79	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.98	61	56582.42	.79	26348.93	28927.37	1305.33	1302.10	3.23	3.06	0.95	29217.34	29218.03

110 19 0 TRISPON 49 22 43.149 123 41 56.460

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.97	72	27365.72	.79	26350.40	0.00	1014.53	1011.08	3.45	2.82			
0.00	0	0.00	.79	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.00	61	56584.53	.79	26348.93	28927.37	1307.44	1304.05	3.39	3.06	0.95	29219.76	29220.34

110 19 2 TRISPON 49 22 53.271 123 42 25.558

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.93	73	27365.43	.79	26350.40	0.00	1014.24	1010.68	3.56	2.82			
0.00	0	0.00	.79	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.99	61	56586.64	.79	26348.93	28927.37	1309.55	1306.23	3.32	3.06	0.95	29222.16	29222.92

110 19 4 TRISPON 49 23 3.020 123 42 53.355

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.98	73	27365.10	.79	26350.40	0.00	1013.91	1010.30	3.61	2.82			
0.00	0	0.00	.79	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.00	61	56588.74	.79	26348.93	28927.37	1311.65	1308.31	3.34	3.06	0.95	29224.59	29225.38

110 19 6 TRISPON 49 23 13.131 123 43 22.778

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.99	72	27364.75	.79	26350.40	0.00	1013.56	1009.91	3.65	2.81			
0.00	0	0.00	.79	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.97	61	56590.84	.79	26348.93	28927.37	1313.75	1310.50	3.25	3.05	0.95	29227.04	29227.96

110 19 8 TRISPON 49 23 23.872 123 43 53.296

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.04	73	27364.35	.79	26350.40	0.00	1013.16	1009.50	3.66	2.82			
0.00	0	0.00	.79	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.96	61	56593.00	.79	26348.93	28927.37	1315.91	1312.79	3.12	3.05	0.95	29229.60	29230.66

110 1910 TRISPON 49 23 33.538 123 44 21.044

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.04	73	27363.94	.79	26350.40	0.00	1012.75	1009.13	3.62	2.82			
0.00	0	0.00	.79	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.00	61	56595.18	.79	26348.93	28927.37	1318.09	1314.87	3.22	3.04	0.95	29232.19	29233.11

110 1912 TRISPON 49 23 43.279 123 44 50.092

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.03	73	27363.55	.79	26350.40	0.00	1012.36	1008.79	3.57	2.82			
0.00	0	0.00	.79	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.99	61	56597.38	.79	26348.93	28927.37	1320.29	1317.01	3.28	3.03	0.95	29234.78	29235.59

110 1914 TRISPON 49 23 53.610 123 45 18.451

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.03	73	27363.15	.79	26350.40	0.00	1011.96	1008.38	3.58	2.84			
0.00	0	0.00	.79	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.00	62	56599.57	.79	26348.93	28927.37	1322.48	1319.16	3.32	3.03	0.95	29237.37	29238.15

110 1916 TRISPON 49 24 2.395 123 45 48.394

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.02	73	27362.79	.79	26350.40	0.00	1011.60	1008.16	3.44	2.80			
0.00	0	0.00	.79	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.00	61	56601.75	.79	26348.93	28927.37	1324.66	1321.30	3.36	2.96	0.95	29239.91	29240.51

110 1918 TRISPON 49 23 46.504 123 46 7.203

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.94	79	27363.17	.79	26350.40	0.00	1011.98	1010.12	1.86	2.79			
0.00	0	0.00	.79	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.36	66	56603.21	.79	26348.93	28927.37	1326.12	1321.23	4.89	2.92	0.95	29240.99	29238.48

110 1920 TRISPON 49 23 26.576 123 46 22.477

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.90	80	27365.29	.79	26350.40	0.00	1014.10	1012.40	1.70	2.79			
0.00	0	0.00	.79	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.46	66	56602.68	.79	26348.93	28927.37	1325.59	1320.72	4.87	2.91	0.95	29238.34	29235.69

110 1922 TRISPON 49 23 7.304 123 46 36.650

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.88	74	27368.14	.79	26350.40	0.00	1016.95	1014.58	2.37	2.77			
0.00	0	0.00	.79	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.25	62	56601.49	.79	26348.93	28927.37	1324.40	1320.21	4.19	2.89	0.95	29234.30	29233.00

110 1924 TRISPON 49 22 48.331 123 46 51.347

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.94	73	27371.07	.79	26350.40	0.00	1019.88	1016.75	3.13	2.76			
0.00	0	0.00	.79	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.07	61	56600.29	.79	26348.93	28927.37	1323.20	1319.74	3.46	2.86	0.95	29230.17	29230.36

110 1926 TRISPON 49 22 28.634 123 47 5.567

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.00	72	27373.81	.79	26350.40	0.00	1022.62	1018.99	3.63	2.76			
0.00	0	0.00	.79	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.95	61	56599.28	.79	26348.93	28927.37	1322.19	1319.20	2.99	2.86	0.95	29226.42	29227.58

110 1928 TRISPON 49 22 9.005 123 47 19.568

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.01	72	27376.26	.79	26350.40	0.00	1025.07	1021.21	3.86	2.73			
0.00	0	0.00	.79	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.88	61	56598.51	.79	26348.93	28927.37	1321.42	1318.66	2.76	2.86	0.95	29223.20	29224.82

110 1930 TRISPON 49 21 48.285 123 47 33.190

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.03	72	27378.44	.79	26350.40	0.00	1027.25	1023.52	3.73	2.70			
0.00	0	0.00	.79	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.89	62	56598.03	.79	26348.93	28927.37	1320.94	1318.03	2.91	2.86	0.95	29220.54	29221.88

110 1950 TRISPON 49 20 25.308 123 42 9.580

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.97	73	27379.49	.79	26350.40	0.00	1028.30	1024.91	3.39	2.77			
0.00	0	0.00	.79	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.03	61	56576.42	.79	26348.93	28927.37	1299.33	1295.71	3.62	2.88	0.95	29197.88	29198.17

110 1952 TRISPON 49 20 17.469 123 41 38.513

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.03	73	27379.61	.80	26350.40	0.00	1028.41	1025.05	3.36	2.77			
0.00	0	0.00	.80	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.03	61	56574.28	.80	26348.93	28927.37	1297.18	1293.56	3.62	2.88	0.95	29195.62	29195.88

110 1954 TRISPON 49 20 9.743 123 41 4.523

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.06	73	27379.72	.80	26350.40	0.00	1028.52	1025.13	3.39	2.77			
0.00	0	0.00	.80	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.03	61	56572.06	.80	26348.93	28927.37	1294.96	1291.29	3.67	2.89	0.95	29193.29	29193.53

110 1956 TRISPON 49 20 2.389 123 40 33.836

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
3.03	73	27379.85	.80	26350.40	0.00	1028.65	1025.25	3.40	2.77				
0.00	0	0.00	.80	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00	
5.00	127	56570.39	.80	26348.93	28927.37	0.00	0.00	0.00	0.00	0.95	0.00	0.00	T

110 1958 TRISPON 49 19 53.863 123 40 1.262

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
3.00	73	27380.01	.80	26350.40	0.00	1028.81	1025.45	3.36	2.77				
0.00	0	0.00	.80	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00	
2.32	70	56569.46	.80	26348.93	28927.37	0.00	0.00	0.00	0.00	0.95	0.00	0.00	T

110 20 0 TRISPON 49 19 46.127 123 39 30.371

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
3.06	73	27380.17	.80	26350.40	0.00	1028.97	1025.61	3.36	2.77				
0.00	0	0.00	.80	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00	
2.82	73	56567.39	.80	26348.93	28927.37	0.00	0.00	0.00	0.00	0.95	0.00	0.00	T

110 20 4 TRISPON 49 19 29.886 123 38 24.414

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
2.96	73	27380.60	.80	26350.40	0.00	1029.40	1025.94	3.46	2.77				
0.00	0	0.00	.80	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00	
2.93	61	56560.67	.80	26348.93	28927.37	0.00	0.00	0.00	0.00	0.95	0.00	0.00	T

110 20 6 TRISPON 49 19 21.927 123 37 53.063

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
3.02	72	27380.84	.80	26350.40	0.00	1029.64	1026.12	3.52	2.77				
0.00	0	0.00	.80	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00	
2.87	62	56558.05	.80	26348.93	28927.37	0.00	0.00	0.00	0.00	0.95	0.00	0.00	T

110 20 8 TRISPON 49 19 12.898 123 37 16.803

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.03	72	27381.07	.80	26350.40	0.00	1029.87	1026.33	3.54	2.77			
0.00	0	0.00	.80	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.85	61	56555.87	.80	26348.93	28927.37	0.00	0.00	0.00	0.00	0.95	0.00	0.00

110 2018 TRISPON 49 18 27.936 123 34 32.962

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.91	73	27382.21	.80	26350.40	0.00	1031.01	1027.75	3.26	2.78			
0.00	0	0.00	.80	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.01	61	56544.99	.80	26348.93	28927.37	1267.89	1264.25	3.64	3.12	0.95	29163.73	29163.87

110 2020 TRISPON 49 18 19.566 123 34 2.104

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.92	72	27382.47	.80	26350.40	0.00	1031.27	1028.02	3.25	2.76			
0.00	0	0.00	.80	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.97	60	56542.64	.80	26348.93	28927.37	1265.54	1262.09	3.45	3.13	0.95	29161.12	29161.44

110 2022 TRISPON 49 18 10.466 123 33 30.370

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.01	72	27382.73	.80	26350.40	0.00	1031.53	1028.35	3.18	2.72			
0.00	0	0.00	.80	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.95	61	56540.39	.80	26348.93	28927.37	1263.29	1259.85	3.44	3.13	0.95	29158.61	29158.87

110 2024 TRISPON 49 18 2.522 123 32 57.600

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.07	72	27382.98	.80	26350.40	0.00	1031.78	1028.55	3.23	2.68			
0.00	0	0.00	.80	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.97	62	56538.26	.80	26348.93	28927.37	1261.16	1257.63	3.53	3.15	0.95	29156.23	29156.45

110 2026 TRISPON 49 17 54.451 123 32 28.439

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.00	72	27383.25	.80	26350.40	0.00	1032.05	1028.84	3.21	2.67			
0.00	0	0.00	.80	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.96	60	56536.18	.80	26348.93	28927.37	1259.08	1255.59	3.49	3.16	0.95	29153.88	29154.12

110 2028 TRISPON 49 17 46.505 123 31 57.679

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.97	71	27383.49	.80	26350.40	0.00	1032.29	1029.09	3.20	2.67			
0.00	0	0.00	.80	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.02	60	56534.09	.80	26348.93	28927.37	1256.99	1253.47	3.52	3.15	0.95	29151.55	29151.75

110 2030 TRISPON 49 17 38.843 123 31 27.637

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.02	71	27383.63	.80	26350.40	0.00	1032.49	1029.33	3.16	2.57			
0.00	0	0.00	.80	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.99	60	56532.00	.80	26348.93	28927.37	1254.90	1251.41	3.49	3.15	0.95	29149.26	29149.45

110 2032 TRISPON 49 17 31.177 123 30 56.686

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.03	71	27383.92	.80	26350.40	0.00	1032.72	1029.55	3.17	2.63			
0.00	0	0.00	.80	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.00	60	56529.90	.80	26348.93	28927.37	1252.80	1249.30	3.50	3.16	0.95	29146.93	29147.12

110 2034 TRISPON 49 17 23.226 123 30 25.033

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.02	71	27384.15	.80	26350.40	0.00	1032.95	1029.80	3.15	2.68			
0.00	0	0.00	.80	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.01	60	56527.80	.80	26348.93	28927.37	1250.70	1247.14	3.56	3.16	0.95	29144.60	29144.71

110 2036 TRISPON 49 17 15.607 123 29 54.058

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.97	71	27384.39	.80	26350.40	0.00	1033.19	1030.03	3.16	2.69			
0.00	0	0.00	.80	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.02	61	56525.70	.80	26348.93	28927.37	1248.60	1245.04	3.56	3.16	0.95	29142.26	29142.38

110 2038 TRISPON 49 17 7.948 123 29 23.567

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.98	71	27384.66	.80	26350.40	0.00	1033.46	1030.28	3.18	2.63			
0.00	0	0.00	.80	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.99	60	56523.60	.80	26348.93	28927.37	1246.50	1242.95	3.55	3.23	0.95	29139.89	29140.04

110 2040 TRISPON 49 17 .912 123 28 51.231

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.98	71	27384.92	.80	26350.40	0.00	1033.72	1030.44	3.28	2.60			
0.00	0	0.00	.80	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.98	60	56521.49	.80	26348.93	28927.37	1244.39	1240.82	3.57	3.25	0.95	29137.52	29137.75

110 2042 TRISPON 49 16 53.490 123 28 19.485

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.97	70	27385.18	.80	26350.40	0.00	1033.98	1030.65	3.33	2.61			
0.00	0	0.00	.80	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.96	60	56519.40	.80	26348.93	28927.37	1242.30	1238.69	3.61	3.25	0.95	29135.17	29135.41

110 2044 TRISPON 49 16 46.633 123 27 50.121

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.95	71	27385.44	.80	26350.40	0.00	1034.24	1030.85	3.39	2.63			
0.00	0	0.00	.80	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.99	61	56517.34	.80	26348.93	28927.37	1240.24	1236.72	3.52	3.26	0.95	29132.85	29133.24

110 2046 TRISPON 49 16 39.779 123 27 19.584

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.95	70	27385.68	.81	26350.40	0.00	1034.47	1031.03	3.44	2.66			
0.00	0	0.00	.81	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.97	60	56515.31	.81	26348.93	28927.37	1238.20	1234.68	3.52	3.26	0.95	29130.58	29131.02

110 2048 TRISPON 49 16 33.168 123 26 48.305

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.99	70	27385.89	.81	26350.40	0.00	1034.68	1031.18	3.50	2.68			
0.00	0	0.00	.81	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.97	61	56513.31	.81	26348.93	28927.37	1236.20	1232.63	3.57	3.27	0.95	29128.37	29128.82

110 2050 TRISPON 49 16 26.559 123 26 17.094

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.00	70	27386.07	.81	26350.40	0.00	1034.86	1031.34	3.52	2.67			
0.00	0	0.00	.81	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.97	61	56511.32	.81	26348.93	28927.37	1234.21	1230.59	3.62	3.30	0.95	29126.20	29126.62

110 2052 TRISPON 49 16 19.717 123 25 45.476

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.96	69	27386.21	.81	26350.40	0.00	1035.00	1031.51	3.49	2.68			
0.00	0	0.00	.81	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.00	60	56509.30	.81	26348.93	28927.37	1232.19	1228.51	3.68	3.32	0.95	29124.04	29124.37

110 2054 TRISPON 49 16 12.597 123 25 16.062

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.94	70	27386.35	.81	26350.40	0.00	1035.14	1031.76	3.38	2.67			
0.00	0	0.00	.81	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.99	61	56507.28	.81	26348.93	28927.37	1230.17	1226.52	3.65	3.33	0.95	29121.88	29122.13

110 2056 TRISPON 49 16 5.859 123 24 49.484

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.98	69	27386.50	.81	26350.40	0.00	1035.29	1032.02	3.27	2.72			
0.00	0	0.00	.81	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.97	60	56505.36	.81	26348.93	28927.37	1228.25	1224.70	3.55	3.33	0.95	29119.81	29120.05

110 2058 TRISPON 49 15 58.469 123 24 17.587

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.96	70	27386.67	.81	26350.40	0.00	1035.46	1032.26	3.20	2.69			
0.00	0	0.00	.81	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.00	60	56503.42	.81	26348.93	28927.37	1226.31	1222.57	3.74	3.35	0.95	29117.70	29117.68

110 21 0 TRISPON 49 15 50.816 123 23 45.544

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.96	69	27386.86	.81	26350.40	0.00	1035.65	1032.53	3.12	2.67			
0.00	0	0.00	.81	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.00	60	56501.37	.81	26348.93	28927.37	1224.26	1220.42	3.84	3.36	0.95	29115.46	29115.26

110 21 2 TRISPON 49 15 43.214 123 23 14.450

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.96	70	27387.07	.81	26350.40	0.00	1035.86	1032.82	3.04	2.60			
0.00	0	0.00	.81	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.00	60	56499.21	.81	26348.93	28927.37	1222.10	1218.32	3.78	3.37	0.95	29113.09	29112.87

110 21 4 TRISPON 49 15 35.489 123 22 42.750

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.00	71	27387.30	.81	26350.40	0.00	1036.09	1033.11	2.98	2.53			
0.00	0	0.00	.81	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.99	60	56497.00	.81	26348.93	28927.37	1219.89	1216.17	3.72	3.40	0.95	29110.65	29110.43

110 21 6 TRISPON 49 15 29.220 123 22 11.274

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.03	71	27387.56	.81	26350.40	0.00	1036.35	1033.26	3.09	2.37			
0.00	0	0.00	.81	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
5.00	71	56496.17	.81	26348.93	28927.37	1219.06	1214.14	4.92	3.47	0.95	29109.56	29108.25

110 21 8 TRISPON 49 15 46.063 123 21 56.967

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.07	76	27386.96	.81	26350.40	0.00	1035.75	1031.35	4.40	2.36			
0.00	0	0.00	.81	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.76	60	56495.31	.81	26348.93	28927.37	1218.20	1214.55	3.65	3.47	0.95	29109.30	29110.57

110 2110 TRISPON 49 16 1.748 123 21 34.378

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.07	74	27384.78	.81	26350.40	0.00	1033.57	1029.44	4.13	2.36			
0.00	0	0.00	.81	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.84	61	56494.47	.81	26348.93	28927.37	1217.36	1214.45	2.91	3.51	0.95	29110.64	29112.38

110 2112 TRISPON 49 16 20.865 123 21 23.219

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.08	72	27382.22	.81	26350.40	0.00	1031.01	1027.35	3.66	2.36			
0.00	0	0.00	.81	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.72	64	56494.57	.81	26348.93	28927.37	1217.46	1215.18	2.28	3.54	0.95	29113.30	29115.20

110 2116 TRISPON 49 16 53.220 123 20 42.767

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.02	72	27377.21	.81	26350.40	0.00	1026.00	1023.49	2.51	2.37			
0.00	0	0.00	.81	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.96	60	56496.26	.81	26348.93	28927.37	1219.15	1215.32	3.83	3.62	0.95	29120.00	29119.20

110 2118 TRISPON 49 17 8.967 123 20 21.518

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.99	72	27375.15	.81	26350.40	0.00	1023.94	1021.60	2.34	2.37			
0.00	0	0.00	.81	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.03	60	56496.68	.81	26348.93	28927.37	1219.57	1215.32	4.25	3.62	0.95	29122.48	29121.09

110 2120 TRISPON 49 17 27.489 123 20 8.861

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.01	72	27373.32	.81	26350.40	0.00	1022.11	1019.55	2.56	2.37			
0.00	0	0.00	.81	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.98	60	56496.85	.81	26348.93	28927.37	1219.74	1215.94	3.80	3.66	0.95	29124.48	29123.76

110 2122 TRISPON 49 17 48.606 123 20 1.883

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.02	71	27371.46	.81	26350.40	0.00	1020.25	1017.32	2.93	2.37			
0.00	0	0.00	.81	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.88	61	56497.38	.81	26348.93	28927.37	1220.27	1217.04	3.23	3.65	0.95	29126.87	29127.09

110 2124 TRISPON 49 18 8.311 123 19 54.796

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.03	72	27369.46	.81	26350.40	0.00	1018.25	1015.23	3.02	2.38			
0.00	0	0.00	.81	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.85	60	56498.38	.81	26348.93	28927.37	1221.27	1218.03	3.24	3.73	0.95	29129.87	29130.17

110 2126 TRISPON 49 18 28.921 123 19 46.195

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.03	71	27367.32	.81	26350.40	0.00	1016.11	1013.03	3.08	2.38			
0.00	0	0.00	.81	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.89	60	56499.60	.81	26348.93	28927.37	1222.49	1219.01	3.48	3.79	0.95	29133.23	29133.35

110 2136 TRISPON 49 20 11.596 123 19 9.414

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.00	72	27356.16	.81	26350.40	0.00	1004.95	1002.16	2.79	2.40			
0.00	0	0.00	.81	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.97	60	56505.28	.81	26348.93	28927.37	1228.17	1224.25	3.92	3.90	0.95	29150.07	29149.46

110 2138 TRISPON 49 20 33.662 123 19 4.168

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.02	72	27353.97	.82	26350.40	0.00	1002.75	999.85	2.90	2.40			
0.00	0	0.00	.82	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.97	60	56506.31	.82	26348.93	28927.37	1229.19	1225.51	3.68	3.90	0.95	29153.29	29153.03

110 2140 TRISPON 49 20 53.945 123 18 56.691

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.95	71	27351.78	.82	26350.40	0.00	1000.56	997.70	2.86	2.40			
0.00	0	0.00	.82	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.93	60	56507.41	.82	26348.93	28927.37	1230.29	1226.55	3.74	3.87	0.95	29156.58	29156.22

110 2152 SEXTANT 49 22 56.379 123 18 18.439

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.97	71	27339.11	.82	26350.40	0.00	987.89	984.81	3.08	2.42			
0.00	0	0.00	.82	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.98	61	56514.42	.82	26348.93	28927.37	1237.30	1233.21	4.09	4.02	0.95	29176.26	29175.77

110 2156 SEXTANT 49 23 38.687 123 18 8.627

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.00	71	27334.74	.82	26350.40	0.00	983.52	980.41	3.11	2.43			
0.00	0	0.00	.82	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.03	61	56516.76	.82	26348.93	28927.37	1239.64	1235.70	3.94	4.03	0.95	29182.97	29182.66

110 2158 SEXTANT 49 24 .041 123 18 2.157

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.98	71	27332.53	.82	26350.40	0.00	981.31	978.17	3.14	2.43			
0.00	0	0.00	.82	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.98	61	56518.04	.82	26348.93	28927.37	1240.92	1236.89	4.03	3.98	0.95	29186.46	29186.09

110 22 0 SEX.PLO 49 24 19.000 123 17 57.000

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.95	71	27330.35	.82	26350.40	0.00	979.13	976.19	2.94	2.44			
0.00	0	0.00	.82	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.96	61	56519.35	.82	26348.93	28927.37	1242.23	1237.98	4.25	3.99	0.95	29189.95	29189.16

110 22 2 SEXTANT 49 24 40.657 123 17 49.010

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.98	71	27328.13	.82	26350.40	0.00	976.96	973.89	3.07	2.44			
0.00	0	0.00	.82	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.96	61	56520.64	.82	26348.93	28927.37	1243.52	1239.12	4.40	3.97	0.95	29193.41	29192.60

110 22 4 SEXTANT 49 25 1.620 123 17 42.511

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.02	72	27326.03	.82	26350.40	0.00	974.81	971.68	3.13	2.45			
0.00	0	0.00	.82	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.97	61	56521.85	.82	26348.93	28927.37	1244.73	1240.29	4.44	3.97	0.95	29196.77	29195.98

110 22 6 SEXTANT 49 25 22.671 123 17 34.581

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.98	71	27323.84	.82	26350.40	0.00	972.62	969.45	3.17	2.45			
0.00	0	0.00	.82	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.98	62	56523.03	.82	26348.93	28927.37	1245.91	1241.39	4.52	4.02	0.95	29200.14	29199.31

110 22 8 SEXTANT 49 25 42.418 123 17 29.834

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.95	72	27321.64	.82	26350.40	0.00	970.42	967.39	3.03	2.45			
0.00	0	0.00	.82	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.96	61	56524.25	.82	26348.93	28927.37	1247.13	1242.56	4.57	4.02	0.95	29203.56	29202.54

110 2212 PLOT 49 26 24.000 123 17 18.000

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.95	71	27317.29	.82	26350.40	0.00	966.07	963.03	3.04	2.46			
0.00	0	0.00	.82	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.97	62	56526.70	.82	26348.93	28927.37	1249.58	1244.95	4.63	4.05	0.95	29210.36	29209.29

110 2214 PLOT 49 26 45.000 123 17 12.000

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.98	72	27315.18	.82	26350.40	0.00	963.96	960.83	3.13	2.46			
0.00	0	0.00	.82	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.00	63	56527.88	.82	26348.93	28927.37	1250.76	1246.16	4.60	4.02	0.95	29213.65	29212.70

110 2218 PLOT 49 27 26.000 123 16 58.000

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.01	73	27310.95	.82	26350.40	0.00	959.73	956.50	3.23	2.47			
0.00	0	0.00	.82	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.96	64	56530.31	.82	26348.93	28927.37	1253.19	1248.42	4.77	4.03	0.95	29220.31	29219.29

110 2220 PLOT 49 27 44.606 123 16 51.665

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.08	73	27309.14	.82	26350.40	0.00	957.92	954.54	3.38	2.48			
0.00	0	0.00	.82	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.01	63	56531.34	.82	26348.93	28927.37	1254.22	1249.45	4.77	4.03	0.95	29223.15	29222.28

110 2222 SEXTANT COM 49 28 7.972 123 16 44.345

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.12	73	27306.51	.82	26350.40	0.00	955.29	952.08	3.21	2.48			
0.00	0	0.00	.82	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.03	64	56532.76	.82	26348.93	28927.37	1255.64	1250.77	4.87	4.05	0.95	29227.20	29226.06

110 2224 SEXTANT [illegible] 49 28 28.768 123 16 38.037

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.09	73	27304.19	.82	26350.40	0.00	952.97	949.89	3.08	2.48			
0.00	0	0.00	.82	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.00	65	56534.01	.82	26348.93	28927.37	1256.89	1251.97	4.92	4.07	0.95	29230.77	29229.45

110 2226 SEXTANT [illegible] 49 28 48.930 123 16 32.690

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.00	73	27301.90	.82	26350.40	0.00	950.68	947.79	2.89	2.49			
0.00	0	0.00	.82	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.04	65	56535.25	.82	26348.93	28927.37	1258.13	1253.16	4.97	4.11	0.95	29234.30	29232.74

110 2228 SEXTANT [illegible] 49 29 9.089 123 16 27.374

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.01	73	27299.71	.82	26350.40	0.00	948.49	945.68	2.81	2.50			
0.00	0	0.00	.82	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.09	66	56536.47	.82	26348.93	28927.37	1259.35	1254.36	4.99	4.07	0.95	29237.71	29236.05

110 2230 SEXTANT COM 49 29 29.476 123 16 20.611

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.97	72	27297.59	.82	26350.40	0.00	946.37	943.53	2.84	2.50			
0.00	0	0.00	.82	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.07	66	56537.74	.82	26348.93	28927.37	1260.62	1255.51	5.11	4.10	0.95	29241.10	29239.35

110 2232 SEXTANT 49 29 49.467 123 16 14.909

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.96	72	27295.55	.83	26350.40	0.00	944.32	941.42	2.90	2.51			
0.00	0	0.00	.83	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.02	66	56539.05	.83	26348.93	28927.37	1261.92	1256.68	5.24	4.14	0.95	29244.45	29242.63

110 2234 SEX.PLO 49 30 9.600 123 16 12.000

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.99	72	27293.56	.83	26350.40	0.00	942.33	939.36	2.97	2.51			
0.00	0	0.00	.83	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.07	68	56540.36	.83	26348.93	28927.37	1263.23	1258.00	5.23	4.16	0.95	29247.75	29246.01

110 2236 PLOT 49 30 31.500 123 16 7.000

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.97	72	27291.50	.83	26350.40	0.00	940.27	937.08	3.19	2.51			
0.00	0	0.00	.83	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.04	68	56541.76	.83	26348.93	28927.37	1264.63	1259.35	5.28	4.16	0.95	29251.21	29249.64

110 2238 PLOT 49 30 52.000 123 16 3.000

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.90	72	27289.39	.83	26350.40	0.00	938.16	934.96	3.20	2.52			
0.00	0	0.00	.83	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.99	69	56543.27	.83	26348.93	28927.37	1266.14	1260.65	5.49	4.23	0.95	29254.83	29253.06

110 2240 PLOT 49 31 13.000 123 15 57.000

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.93	72	27287.19	.83	26350.40	0.00	935.96	932.76	3.20	2.53			
0.00	0	0.00	.83	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.03	70	56544.83	.83	26348.93	28927.37	1267.70	1261.89	5.81	4.22	0.95	29258.59	29256.50

110 2244 SEX.PLO 49 31 56.500 123 15 45.000

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.98	72	27282.53	.83	26350.40	0.00	931.30	928.20	3.10	2.54			
0.00	0	0.00	.83	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.05	71	56547.76	.83	26348.93	28927.37	1270.63	1264.50	6.13	4.17	0.95	29266.18	29263.67

110 2246 PLOT 49 32 18.000 123 15 37.000

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.02	71	27280.15	.83	26350.40	0.00	928.92	925.92	3.00	2.55			
0.00	0	0.00	.83	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.07	71	56549.11	.83	26348.93	28927.37	1271.98	1265.69	6.29	4.25	0.95	29269.91	29267.14

110 2248 PLOT 49 32 40.000 123 15 30.500

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.98	71	27277.79	.83	26350.40	0.00	926.56	923.61	2.95	2.55			
0.00	0	0.00	.83	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.15	71	56550.36	.83	26348.93	28927.37	1273.23	1267.00	6.23	4.24	0.95	29273.52	29270.76

110 2250 PLOT 49 33 1.000 123 15 26.000

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.89	71	27275.52	.83	26350.40	0.00	924.29	921.44	2.85	2.56			
0.00	0	0.00	.83	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.17	70	56551.60	.83	26348.93	28927.37	1274.47	1268.32	6.15	4.24	0.95	29277.03	29274.25

110 2252 PLOT 49 33 22.000 123 15 20.000

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.90	70	27273.35	.83	26350.40	0.00	922.12	919.24	2.88	2.57			
0.00	0	0.00	.83	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.08	70	56552.85	.83	26348.93	28927.37	1275.72	1269.58	6.14	4.24	0.95	29280.45	29277.71

110 2254 SEX.PLO 49 33 44.000 123 15 14.000

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.94	70	27271.23	.83	26350.40	0.00	920.00	916.93	3.07	2.57			
0.00	0	0.00	.83	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.10	70	56554.07	.83	26348.93	28927.37	1276.94	1270.92	6.02	4.18	0.95	29283.79	29281.36

110 2256 PLOT 49 34 5.500 123 15 7.000

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.95	70	27269.07	.83	26350.40	0.00	917.84	914.67	3.17	2.58			
0.00	0	0.00	.83	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.06	71	56555.23	.83	26348.93	28927.37	1278.10	1272.18	5.92	4.25	0.95	29287.11	29284.88

110 23 0 PLOT 49 34 49.000 123 14 54.500

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.93	69	27264.68	.83	26350.40	0.00	913.45	910.11	3.34	2.59			
0.00	0	0.00	.83	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.00	71	56557.67	.83	26348.93	28927.37	1280.54	1274.80	5.74	4.19	0.95	29293.94	29292.06

110 23 2 PLOT 49 35 12.000 123 14 47.000

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.95	70	27262.46	.83	26350.40	0.00	911.23	907.68	3.55	2.60			
0.00	0	0.00	.83	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.01	71	56558.95	.83	26348.93	28927.37	1281.82	1276.15	5.67	4.25	0.95	29297.44	29295.84

110 23 4 PLOT 49 35 33.000 123 14 40.500

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.99	71	27260.16	.83	26350.40	0.00	908.93	905.48	3.45	2.61			
0.00	0	0.00	.83	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.14	73	56560.23	.83	26348.93	28927.37	1283.10	1277.41	5.69	4.19	0.95	29301.02	29299.30

110 23 6 SEX.PLO 49 35 52.800 123 14 37.000

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.01	70	27257.77	.83	26350.40	0.00	906.54	903.43	3.11	2.61			
0.00	0	0.00	.83	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.14	73	56561.61	.83	26348.93	28927.37	1284.48	1278.71	5.77	4.19	0.95	29304.79	29302.65

110 2312 SEX.PLO 49 37 2.000 123 14 13.500

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.92	70	27250.62	.83	26350.40	0.00	899.39	896.13	3.26	2.65			
0.00	0	0.00	.83	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.11	72	56565.75	.83	26348.93	28927.37	1288.62	1282.77	5.85	4.21	0.95	29316.08	29314.01

110 2316 SEX.PLO 49 37 43.000 123 14 2.500

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.91	69	27246.67	.83	26350.40	0.00	895.44	891.84	3.60	2.67			
0.00	0	0.00	.83	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.02	70	56568.20	.83	26348.93	28927.37	1291.07	1285.33	5.74	4.21	0.95	29322.48	29320.86

110 2318 SEX.PLO 49 38 9.400 123 13 55.200

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.92	69	27244.25	.83	26350.40	0.00	893.02	889.08	3.94	2.69			
0.00	0	0.00	.83	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.03	71	56569.73	.83	26348.93	28927.37	1292.60	1286.97	5.63	4.17	0.95	29326.43	29325.26

110 2320 SEX.PLO 49 38 32.000 123 13 49.000

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.90	69	27242.14	.83	26350.40	0.00	890.91	886.71	4.20	2.69			
0.00	0	0.00	.83	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.06	72	56571.02	.83	26348.93	28927.37	1293.89	1288.38	5.51	4.17	0.95	29329.83	29329.04

110 2326 SEX.PLO 49 39 38.000 123 13 32.000

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.95	71	27235.66	.84	26350.40	0.00	884.42	879.81	4.61	2.74			
0.00	0	0.00	.84	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.24	74	56575.35	.84	26348.93	28927.37	1298.21	1292.55	5.66	4.27	0.95	29340.64	29340.11

110 2330 SEX.PLO 49 40 0.000 123 13 32.000

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.13	81	27231.87	.84	26350.40	0.00	880.63	877.60	3.03	2.78			
0.00	0	0.00	.84	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.09	73	56578.20	.84	26348.93	28927.37	1301.06	1294.21	6.85	4.21	0.95	29347.28	29343.98

110 2342 PLOT 49 38 2.000 123 14 10.000

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.86	69	27245.72	.84	26350.40	0.00	894.48	890.04	4.44	2.67			
0.00	0	0.00	.84	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.96	69	56569.04	.84	26348.93	28927.37	1291.90	1287.09	4.81	4.13	0.95	29324.27	29324.42

110 2344 PLOT 49 37 43.000 123 14 18.000

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.87	69	27247.75	.84	26350.40	0.00	896.51	892.07	4.44	2.67			
0.00	0	0.00	.84	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.02	71	56567.97	.84	26348.93	28927.37	1290.83	1286.04	4.79	4.17	0.95	29321.17	29321.34

110 2346 PLOT 49 37 21.500 123 14 24.000

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.90	70	27249.91	.84	26350.40	0.00	898.67	894.32	4.35	2.65			
0.00	0	0.00	.84	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.08	71	56566.89	.84	26348.93	28927.37	1289.75	1284.71	5.04	4.17	0.95	29317.93	29317.76

110 2356 SEX.PLO 49 35 27.500 123 15 4.000

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.96	70	27260.88	.84	26350.40	0.00	909.64	906.38	3.26	2.60			
0.00	0	0.00	.84	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.08	72	56561.08	.84	26348.93	28927.37	1283.94	1278.10	5.84	4.19	0.95	29301.15	29299.09

111 0 0 SEX.PLO 49 34 46.800 123 15 17.000

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.87	70	27265.23	.84	26350.40	0.00	913.99	910.67	3.32	2.59			
0.00	0	0.00	.84	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.04	71	56558.55	.84	26348.93	28927.37	1281.41	1275.69	5.72	4.14	0.95	29294.27	29292.39

111 0 2 SEX.PLO 49 34 26.700 123 15 19.500

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.86	69	27267.35	.84	26350.40	0.00	916.11	912.73	3.38	2.59			
0.00	0	0.00	.84	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.10	71	56557.28	.84	26348.93	28927.37	1280.14	1274.33	5.81	4.14	0.95	29290.88	29288.97

111 0 4 PLOT 49 34 5.500 123 15 24.000

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.89	69	27269.43	.84	26350.40	0.00	918.19	914.92	3.27	2.58			
0.00	0	0.00	.84	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.11	71	56555.96	.84	26348.93	28927.37	1278.82	1272.98	5.84	4.18	0.95	29287.48	29285.43

111 0 8 SEX.PLO 49 33 21.600 123 15 36.500

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.90	70	27273.64	.84	26350.40	0.00	922.40	919.53	2.87	2.57			
0.00	0	0.00	.84	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.08	70	56553.43	.84	26348.93	28927.37	1276.29	1270.34	5.95	4.18	0.95	29280.74	29278.18

111 010 SEX.PLO 49 32 59.400 123 15 44.500

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.92	70	27275.85	.84	26350.40	0.00	924.61	921.88	2.73	2.56			
0.00	0	0.00	.84	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.11	70	56552.25	.84	26348.93	28927.37	1275.11	1269.08	6.03	4.24	0.95	29277.35	29274.57

111 012 PLOT 49 32 39.000 123 15 49.000

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.96	71	27278.10	.84	26350.40	0.00	926.86	924.00	2.86	2.55			
0.00	0	0.00	.84	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.12	70	56551.03	.84	26348.93	28927.37	1273.89	1267.80	6.09	4.24	0.95	29273.88	29271.17

111 018 SEX.PLO 49 31 36.000 123 16 9.000

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.89	70	27284.93	.84	26350.40	0.00	933.69	930.63	3.06	2.53			
0.00	0	0.00	.84	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.03	69	56547.21	.84	26348.93	28927.37	1270.07	1264.05	6.02	4.17	0.95	29263.23	29260.79

111 022 PLOT 49 30 53.000 123 16 20.000

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.91	71	27289.16	.85	26350.40	0.00	937.91	935.11	2.80	2.52			
0.00	0	0.00	.85	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.01	68	56544.32	.85	26348.93	28927.37	1267.17	1261.53	5.64	4.12	0.95	29256.11	29253.79

111 024 SEX.PLO 49 30 32.400 123 16 26.000

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.91	72	27291.36	.85	26350.40	0.00	940.11	937.27	2.84	2.51			
0.00	0	0.00	.85	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.04	67	56542.87	.85	26348.93	28927.37	1265.72	1260.32	5.40	4.12	0.95	29252.46	29250.42

111 026 SEX.PLO 49 30 11.000 123 16 35.000

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.02	73	27293.61	.85	26350.40	0.00	942.36	939.56	2.80	2.51			
0.00	0	0.00	.85	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.00	67	56541.42	.85	26348.93	28927.37	1264.27	1259.20	5.07	4.10	0.95	29248.76	29247.01

111 028 PLOT 49 29 48.000 123 16 41.000

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.00	73	27295.97	.85	26350.40	0.00	944.72	941.96	2.76	2.51			
0.00	0	0.00	.85	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.98	66	56540.02	.85	26348.93	28927.37	1262.87	1257.82	5.05	4.07	0.95	29245.00	29243.23

111 030 SEX.PLO 49 29 26.000 123 16 48.000

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.96	72	27298.42	.85	26350.40	0.00	947.17	944.28	2.89	2.50			
0.00	0	0.00	.85	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.01	65	56538.69	.85	26348.93	28927.37	1261.54	1256.57	4.97	4.07	0.95	29241.22	29239.66

111 032 SEXTANT 49 29 2.692 123 16 54.163

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.02	72	27300.85	.85	26350.40	0.00	949.60	946.71	2.89	2.49			
0.00	0	0.00	.85	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.00	65	56537.35	.85	26348.93	28927.37	1260.20	1255.18	5.02	4.04	0.95	29237.45	29235.84

111 034 SEXTANT 49 28 37.855 123 17 1.254

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.04	73	27303.25	.85	26350.40	0.00	952.00	949.32	2.68	2.49			
0.00	0	0.00	.85	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.92	65	56535.98	.85	26348.93	28927.37	1258.83	1253.73	5.10	4.05	0.95	29233.68	29231.78

111 036 PLOT 49 28 16.000 123 17 9.000

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.01	72	27305.64	.85	26350.40	0.00	954.39	951.63	2.76	2.48			
0.00	0	0.00	.85	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.89	64	56534.66	.85	26348.93	28927.37	1257.51	1252.53	4.98	4.05	0.95	29229.97	29228.27

111 038 PLOT 49 27 53.000 123 17 16.000

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.00	72	27308.05	.85	26350.40	0.00	956.80	954.05	2.75	2.48			
0.00	0	0.00	.85	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.96	63	56533.34	.85	26348.93	28927.37	1256.19	1251.22	4.97	4.02	0.95	29226.24	29224.54

111 042 PLOT 49 27 8.000 123 17 28.000

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.00	72	27312.95	.85	26350.40	0.00	961.70	958.76	2.94	2.47			
0.00	0	0.00	.85	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.91	62	56530.57	.85	26348.93	28927.37	1253.42	1248.58	4.84	3.98	0.95	29218.57	29217.19

111 044 PLOT 49 26 45.000 123 17 34.000

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.98	72	27315.34	.85	26350.40	0.00	964.09	961.16	2.93	2.46			
0.00	0	0.00	.85	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.94	63	56529.15	.85	26348.93	28927.37	1252.00	1247.23	4.77	4.00	0.95	29214.76	29213.44

111 046 PLOT 49 26 23.000 123 17 40.000

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.95	71	27317.71	.85	26350.40	0.00	966.46	963.46	3.00	2.46			
0.00	0	0.00	.85	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.93	62	56527.70	.85	26348.93	28927.37	1250.55	1245.95	4.60	4.05	0.95	29210.94	29209.86

111 050 SEX.PLO 49 25 37.000 123 17 51.500

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.90	72	27322.35	.85	26350.40	0.00	971.10	968.26	2.84	2.45			
0.00	0	0.00	.85	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.90	61	56524.84	.85	26348.93	28927.37	1247.69	1243.24	4.45	4.02	0.95	29203.44	29202.35

111 052 SEXTANT 49 25 14.646 123 17 54.208

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.99	71	27324.67	.85	26350.40	0.00	973.42	970.55	2.87	2.45			
0.00	0	0.00	.85	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.92	61	56523.39	.85	26348.93	28927.37	1246.24	1241.78	4.46	4.00	0.95	29199.67	29198.60

111 056 SEXTANT 49 24 30.704 123 18 6.433

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.92	71	27329.34	.85	26350.40	0.00	978.09	975.15	2.94	2.44			
0.00	0	0.00	.85	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.87	61	56520.53	.85	26348.93	28927.37	1243.38	1239.27	4.11	4.00	0.95	29192.14	29191.49

111 058 SEX.PLO 49 24 8.500 123 18 14.000

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.93	72	27331.66	.85	26350.40	0.00	980.41	977.50	2.91	2.43			
0.00	0	0.00	.85	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.92	61	56519.17	.85	26348.93	28927.37	1242.02	1238.07	3.95	3.98	0.95	29188.46	29187.94

111 1 4 SEX.PLO 49 23 1.200 123 18 31.000

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.10	71	27338.62	.85	26350.40	0.00	987.37	984.52	2.85	2.42			
0.00	0	0.00	.85	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.97	61	56515.21	.85	26348.93	28927.37	1238.06	1234.17	3.89	3.97	0.95	29177.54	29177.02

111 1 8 SEX.PLO 49 22 15.600 123 18 43.000

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.86	71	27343.22	.85	26350.40	0.00	991.97	989.29	2.68	2.42			
0.00	0	0.00	.85	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.91	60	56512.75	.85	26348.93	28927.37	1235.60	1231.57	4.03	3.81	0.95	29170.48	29169.65

111 110 SEXTANT 49 21 54.331 123 18 49.789

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.94	71	27345.55	.85	26350.40	0.00	994.30	991.53	2.77	2.41			
0.00	0	0.00	.85	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.92	60	56511.51	.85	26348.93	28927.37	1234.36	1230.42	3.94	3.81	0.95	29166.91	29166.26

111 116 TRISPON 49 20 47.801 123 19 8.102

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.05	72	27352.50	.86	26350.40	0.00	1001.24	998.48	2.76	2.40			
0.00	0	0.00	.86	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.93	60	56507.60	.86	26348.93	28927.37	1230.44	1226.69	3.75	3.83	0.95	29156.05	29155.58

111 118 TRISPON 49 20 25.360 123 19 14.054

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.89	72	27354.89	.86	26350.40	0.00	1003.63	1000.83	2.80	2.40			
0.00	0	0.00	.86	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.95	60	56506.32	.86	26348.93	28927.37	1229.16	1225.43	3.73	3.85	0.95	29152.38	29151.97

111 120 TRISPON 49 20 2.197 123 19 15.731

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.06	71	27357.26	.86	26350.40	0.00	1006.00	1003.19	2.81	2.39			
0.00	0	0.00	.86	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.95	60	56504.97	.86	26348.93	28927.37	1227.81	1223.91	3.90	3.87	0.95	29148.66	29148.09

111 122 TRISPON 49 19 39.275 123 19 16.730

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.01	72	27359.60	.86	26350.40	0.00	1008.34	1005.51	2.83	2.39			
0.00	0	0.00	.86	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.97	59	56503.49	.86	26348.93	28927.37	1226.33	1222.37	3.96	3.92	0.95	29144.84	29144.23

111 124 TRISPON 49 19 19.864 123 18 50.142

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.92	74	27361.58	.86	26350.40	0.00	1010.32	1007.07	3.25	2.39			
0.00	0	0.00	.86	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.98	60	56501.82	.86	26348.93	28927.37	1224.66	1219.70	4.96	3.91	0.95	29141.19	29140.00

111 18 2 TRISPON 49 18 25.142 123 18 7.387

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.02	72	27366.46	1.04	26350.40	0.00	1015.02	1011.98	3.04	2.57			
0.00	0	0.00	1.04	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.96	59	56494.93	1.04	26348.93	28927.37	1217.59	1213.79	3.80	3.85	0.95	29129.42	29129.18

111 18 4 TRISPON 49 18 12.039 123 18 35.036

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.03	73	27368.10	1.04	26350.40	0.00	1016.66	1013.69	2.97	2.55			
0.00	0	0.00	1.04	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.95	59	56495.39	1.04	26348.93	28927.37	1218.05	1214.27	3.78	3.83	0.95	29128.24	29127.95

111 18 8 TRISPON 49 17 45.404 123 19 29.483

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.02	72	27371.50	1.05	26350.40	0.00	1020.05	1017.16	2.89	2.37			
0.00	0	0.00	1.05	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.96	59	56496.26	1.05	26348.93	28927.37	1218.91	1215.17	3.74	3.76	0.95	29125.71	29125.38

111 1810 TRISPON 49 17 29.407 123 19 53.624

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.03	72	27373.33	1.05	26350.40	0.00	1021.88	1019.12	2.76	2.37			
0.00	0	0.00	1.05	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.96	60	56496.59	1.05	26348.93	28927.37	1219.24	1215.30	3.94	3.73	0.95	29124.21	29123.55

111 1812 TRISPON 49 17 7.688 123 20 2.433

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.03	72	27375.68	1.05	26350.40	0.00	1024.23	1021.44	2.79	2.37			
0.00	0	0.00	1.05	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.97	60	56495.50	1.05	26348.93	28927.37	1218.15	1214.26	3.89	3.65	0.95	29120.77	29120.19

111 1816 1D + DR 49 16 24.063 123 20 18.328

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.03	72	27380.37	1.05	26350.40	0.00	1028.92	1026.06	2.86	2.37			
0.00	0	0.00	1.05	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.96	61	56493.10	1.05	26348.93	28927.37	1215.75	1212.10	3.65	3.63	0.95	29113.68	29113.41

111 1818 1D + DR 49 16 2.253 123 20 26.231

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.03	72	27382.69	1.05	26350.40	0.00	1031.24	1028.38	2.86	2.36			
0.00	0	0.00	1.05	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.97	61	56491.96	1.05	26348.93	28927.37	1214.61	1211.02	3.59	3.63	0.95	29110.22	29110.01

111 1820 TRISPON 49 15 40.440 123 20 34.106

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.01	72	27384.98	1.05	26350.40	0.00	1033.53	1030.69	2.84	2.36			
0.00	0	0.00	1.05	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.96	60	56490.80	1.05	26348.93	28927.37	1213.45	1209.94	3.51	3.56	0.95	29106.77	29106.62

111 1822 TRISPON 49 15 18.234 123 20 40.531

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.02	72	27387.25	1.05	26350.40	0.00	1035.80	1033.02	2.78	2.36			
0.00	0	0.00	1.05	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.97	60	56489.68	1.05	26348.93	28927.37	1212.33	1208.77	3.56	3.55	0.95	29103.38	29103.12

111 1824 TRISPON 49 14 57.176 123 20 46.910

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.02	72	27389.54	1.05	26350.40	0.00	1038.09	1035.23	2.86	2.35			
0.00	0	0.00	1.05	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.98	60	56488.57	1.05	26348.93	28927.37	1211.22	1207.67	3.55	3.50	0.95	29099.98	29099.81

111 1826 TRISPON 49 14 34.977 123 20 54.056

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.02	72	27391.82	1.05	26350.40	0.00	1040.37	1037.57	2.80	2.35			
0.00	0	0.00	1.05	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.97	60	56487.45	1.05	26348.93	28927.37	1210.10	1206.54	3.56	3.43	0.95	29096.58	29096.34

111 1828 TRISPON 49 14 12.510 123 21 1.978

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.03	72	27394.14	1.05	26350.40	0.00	1042.69	1039.95	2.74	2.35			
0.00	0	0.00	1.05	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.97	60	56486.35	1.05	26348.93	28927.37	1209.00	1205.44	3.56	3.41	0.95	29093.16	29092.86

111 1830 TRISPON 49 13 48.870 123 21 8.748

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.03	71	27396.48	1.05	26350.40	0.00	1045.03	1042.43	2.60	2.35			
0.00	0	0.00	1.05	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.00	60	56485.21	1.05	26348.93	28927.37	1207.86	1204.20	3.66	3.39	0.95	29089.68	29089.14

111 1832 TRISPON 49 13 36.331 123 21 25.127

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.03	71	27398.56	1.05	26350.40	0.00	1047.11	1043.93	3.18	2.34			
0.00	0	0.00	1.05	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.94	60	56484.51	1.05	26348.93	28927.37	1207.16	1204.20	2.96	3.38	0.95	29086.90	29087.64

111 1834 TRISPON 49 13 41.488 123 21 58.226

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.05	71	27398.55	1.05	26350.40	0.00	1047.10	1043.90	3.20	2.37			
0.00	0	0.00	1.05	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.90	60	56486.61	1.05	26348.93	28927.37	1209.26	1206.25	3.01	3.37	0.95	29089.01	29089.72

111 1836 TRISPON 49 13 47.275 123 22 28.457

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.04	71	27398.21	1.05	26350.40	0.00	1046.76	1043.77	2.99	2.37			
0.00	0	0.00	1.05	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.98	60	56488.94	1.05	26348.93	28927.37	1211.59	1208.19	3.40	3.37	0.95	29091.68	29091.79

111 1840 TRISPON 49 13 59.056 123 23 34.863

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.00	70	27398.00	1.05	26350.40	0.00	1046.55	1043.59	2.96	2.58			
0.00	0	0.00	1.05	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.00	60	56493.19	1.05	26348.93	28927.37	1215.84	1212.40	3.44	3.32	0.95	29096.14	29096.18

111 1842 TRISPON 49 14 5.547 123 24 7.636

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.98	70	27397.96	1.05	26350.40	0.00	1046.51	1043.44	3.07	2.64			
0.00	0	0.00	1.05	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.99	60	56495.31	1.05	26348.93	28927.37	1217.96	1214.52	3.44	3.31	0.95	29098.30	29098.45

111 1844 TRISPON 49 14 12.147 123 24 41.213

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.97	70	27397.87	1.05	26350.40	0.00	1046.42	1043.30	3.12	2.65			
0.00	0	0.00	1.05	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.00	60	56497.45	1.05	26348.93	28927.37	1220.10	1216.69	3.41	3.23	0.95	29100.53	29100.76

111 1846 TRISPON 49 14 18.841 123 25 14.134

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.96	70	27397.78	1.05	26350.40	0.00	1046.33	1043.14	3.19	2.69			
0.00	0	0.00	1.05	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.98	60	56499.60	1.05	26348.93	28927.37	1222.25	1218.84	3.41	3.21	0.95	29102.77	29103.07

111 1848 TRISPON 49 14 25.983 123 25 46.879

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.96	69	27397.70	1.05	26350.40	0.00	1046.25	1042.94	3.31	2.64			
0.00	0	0.00	1.05	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.00	61	56501.78	1.05	26348.93	28927.37	1224.43	1221.00	3.43	3.19	0.95	29105.03	29105.43

111 1850 TRISPON 49 14 32.405 123 26 21.494

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.94	69	27397.60	1.05	26350.40	0.00	1046.15	1042.85	3.30	2.64			
0.00	0	0.00	1.05	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.97	60	56503.96	1.05	26348.93	28927.37	1226.61	1223.22	3.39	3.20	0.95	29107.31	29107.74

111 1852 TRISPON 49 14 39.360 123 26 54.943

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.96	70	27397.46	1.05	26350.40	0.00	1046.01	1042.69	3.32	2.65			
0.00	0	0.00	1.05	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.98	60	56506.17	1.05	26348.93	28927.37	1228.82	1225.41	3.41	3.21	0.95	29109.66	29110.09

111 1854 TRISPON 49 14 46.692 123 27 27.361

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.98	70	27397.29	1.05	26350.40	0.00	1045.84	1042.48	3.36	2.65			
0.00	0	0.00	1.05	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.99	60	56508.39	1.05	26348.93	28927.37	1231.04	1227.58	3.46	3.20	0.95	29112.05	29112.47

111 1858 TRISPON 49 15 .652 123 28 34.621

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.99	71	27396.94	1.05	26350.40	0.00	1045.49	1042.18	3.31	2.60			
0.00	0	0.00	1.05	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.98	60	56512.75	1.05	26348.93	28927.37	1235.40	1231.99	3.41	3.17	0.95	29116.76	29117.18

111 19 2 TRISPON 49 15 13.224 123 29 38.959

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.99	71	27396.57	1.06	26350.40	0.00	1045.11	1041.99	3.12	2.60			
0.00	0	0.00	1.06	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.97	61	56517.03	1.06	26348.93	28927.37	1239.67	1236.15	3.52	3.00	0.95	29121.41	29121.53

111 1912 TRISPON 49 15 35.179 123 32 18.744

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.01	72	27396.76	1.06	26350.40	0.00	1045.30	1042.53	2.77	2.54			
0.00	0	0.00	1.06	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.03	60	56526.96	1.06	26348.93	28927.37	1249.60	1245.91	3.69	2.98	0.95	29131.15	29130.75

111 1914 TRISPON 49 15 13.676 123 32 22.517

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.02	72	27399.01	1.06	26350.40	0.00	1047.55	1044.74	2.81	2.54			
0.00	0	0.00	1.06	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.07	60	56526.10	1.06	26348.93	28927.37	1248.74	1244.70	4.04	2.98	0.95	29128.04	29127.33

111 1916 TRISPON 49 15 4.663 123 31 54.855

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.02	72	27400.12	1.06	26350.40	0.00	1048.66	1045.16	3.50	2.60			
0.00	0	0.00	1.06	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.06	60	56523.71	1.06	26348.93	28927.37	1246.35	1242.66	3.69	2.99	0.95	29124.54	29124.87

111 1918 TRISPON 49 15 19.787 123 31 30.281

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.02	72	27398.74	1.06	26350.40	0.00	1047.28	1043.23	4.05	2.60			
0.00	0	0.00	1.06	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.92	61	56522.57	1.06	26348.93	28927.37	1245.21	1242.37	2.84	2.99	0.95	29124.78	29126.51

111 1920 TRISPON 49 15 36.711 123 31 37.764

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.03	72	27396.25	1.06	26350.40	0.00	1044.79	1041.67	3.12	2.61			
0.00	0	0.00	1.06	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.89	61	56524.10	1.06	26348.93	28927.37	1246.74	1243.87	2.87	2.98	0.95	29128.80	29129.57

111 1926 TRISPON 49 15 34.519 123 33 5.598

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.00	72	27397.58	1.06	26350.40	0.00	1046.12	1043.42	2.70	2.60			
0.00	0	0.00	1.06	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.07	61	56529.33	1.06	26348.93	28927.37	1251.97	1248.31	3.66	2.98	0.95	29132.70	29132.26

111 1934 TRISPON 49 14 18.389 123 34 8.776

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.02	71	27406.65	1.06	26350.40	0.00	1055.19	1052.12	3.07	2.62			
0.00	0	0.00	1.06	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.00	60	56527.42	1.06	26348.93	28927.37	1250.06	1246.67	3.39	2.85	0.95	29121.72	29121.92

111 1936 TRISPON 49 13 58.170 123 34 21.686

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.02	72	27408.87	1.06	26350.40	0.00	1057.41	1054.36	3.05	2.62			
0.00	0	0.00	1.06	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.99	60	56526.75	1.06	26348.93	28927.37	1249.39	1246.04	3.35	2.83	0.95	29118.83	29119.05

111 1938 TRISPON 49 13 41.909 123 34 43.438

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.04	72	27410.92	1.06	26350.40	0.00	1059.46	1056.37	3.09	2.62			
0.00	0	0.00	1.06	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.95	61	56526.73	1.06	26348.93	28927.37	1249.37	1246.14	3.23	2.82	0.95	29116.76	29117.14

111 1940 TRISPON 49 13 24.771 123 35 4.666

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.03	71	27412.89	1.06	26350.40	0.00	1061.43	1058.45	2.98	2.63			
0.00	0	0.00	1.06	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.96	60	56526.92	1.06	26348.93	28927.37	1249.56	1246.15	3.41	2.82	0.95	29114.98	29115.07

111 1942 TRISPON 49 13 4.913 123 35 16.445

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.00	71	27415.07	1.06	26350.40	0.00	1063.61	1060.63	2.98	2.65			
0.00	0	0.00	1.06	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.00	61	56526.35	1.06	26348.93	28927.37	1248.99	1245.50	3.49	2.82	0.95	29112.23	29112.24

111 1944 TRISPON 49 12 44.793 123 35 28.865

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.01	72	27417.31	1.06	26350.40	0.00	1065.85	1062.86	2.99	2.65			
0.00	0	0.00	1.06	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.96	60	56525.61	1.06	26348.93	28927.37	1248.25	1244.87	3.38	2.81	0.95	29109.25	29109.38

111 1946 TRISPON 49 12 27.879 123 35 47.634

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.01	72	27419.40	1.06	26350.40	0.00	1067.94	1064.88	3.06	2.64			
0.00	0	0.00	1.06	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.94	60	56525.36	1.06	26348.93	28927.37	1248.00	1244.78	3.22	2.82	0.95	29106.91	29107.27

111 1948 TRISPON 49 12 10.837 123 36 9.352

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.02	71	27421.38	1.06	26350.40	0.00	1069.92	1066.96	2.96	2.64			
0.00	0	0.00	1.06	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.95	61	56525.54	1.06	26348.93	28927.37	1248.18	1244.85	3.33	2.80	0.95	29105.11	29105.26

111 1950 TRISPON 49 11 53.679 123 36 27.827

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.01	71	27423.40	1.06	26350.40	0.00	1071.94	1069.00	2.94	2.65			
0.00	0	0.00	1.06	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.99	60	56525.58	1.06	26348.93	28927.37	1248.22	1244.74	3.48	2.83	0.95	29103.13	29103.11

111 1952 TRISPON 49 11 32.859 123 36 39.108

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.01	71	27425.64	1.06	26350.40	0.00	1074.18	1071.27	2.91	2.66			
0.00	0	0.00	1.06	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.01	61	56524.88	1.06	26348.93	28927.37	1247.52	1244.02	3.50	2.85	0.95	29100.19	29100.12

111 1954 TRISPON 49 11 12.943 123 36 50.873

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.01	72	27427.90	1.06	26350.40	0.00	1076.44	1073.47	2.97	2.67			
0.00	0	0.00	1.06	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.98	61	56524.10	1.06	26348.93	28927.37	1246.74	1243.38	3.36	2.83	0.95	29097.15	29097.28

111 1956 TRISPON 49 10 55.345 123 37 9.264

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.01	71	27430.03	1.07	26350.40	0.00	1078.56	1075.54	3.02	2.67			
0.00	0	0.00	1.07	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.93	61	56523.76	1.07	26348.93	28927.37	1246.39	1243.24	3.15	2.83	0.95	29094.68	29095.07

111 1958 TRISPON 49 10 39.053 123 37 30.467

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.00	71	27432.03	1.07	26350.40	0.00	1080.56	1077.54	3.02	2.66			
0.00	0	0.00	1.07	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.96	60	56523.96	1.07	26348.93	28927.37	1246.59	1243.35	3.24	2.83	0.95	29092.88	29093.18

111 20 0 TRISPON 49 10 22.841 123 37 52.460

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.99	71	27434.03	1.07	26350.40	0.00	1082.56	1079.55	3.01	2.66			
0.00	0	0.00	1.07	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.97	61	56524.13	1.07	26348.93	28927.37	1246.76	1243.51	3.25	2.82	0.95	29091.05	29091.33

111 20 2 TRISPON 49 10 6.918 123 37 44.185

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.00	71	27435.71	1.07	26350.40	0.00	1084.24	1080.98	3.26	2.65			
0.00	0	0.00	1.07	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.04	61	56523.23	1.07	26348.93	28927.37	1245.86	1242.06	3.80	2.82	0.95	29088.47	29088.45

111 20 4 TRISPON 49 10 1.241 123 37 13.515

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.02	71	27435.72	1.07	26350.40	0.00	1084.25	1080.99	3.26	2.62			
0.00	0	0.00	1.07	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.00	61	56520.89	1.07	26348.93	28927.37	1243.52	1240.06	3.46	2.82	0.95	29086.12	29086.44

111 20 6 TRISPON 49 9 55.784 123 36 41.229

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.02	71	27435.60	1.07	26350.40	0.00	1084.13	1080.96	3.17	2.58			
0.00	0	0.00	1.07	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.97	61	56518.66	1.07	26348.93	28927.37	1241.29	1237.99	3.30	2.83	0.95	29084.01	29084.40

111 20 8 TRISPON 49 9 50.280 123 36 9.498

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.00	71	27435.64	1.07	26350.40	0.00	1084.17	1080.94	3.23	2.57			
0.00	0	0.00	1.07	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.97	61	56516.53	1.07	26348.93	28927.37	1239.13	1235.94	3.19	2.83	0.95	29081.81	29082.37

111 2010 TRISPON 49 9 39.622 123 35 39.741

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.00	71	27435.74	1.07	26350.40	0.00	1084.27	1081.47	2.80	2.54			
0.00	0	0.00	1.07	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.99	60	56514.33	1.07	26348.93	28927.37	1236.96	1233.68	3.28	2.83	0.95	29079.54	29079.58

111 2012 TRISPON 49 9 33.109 123 35 3.714

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.00	71	27435.86	1.07	26350.40	0.00	1084.39	1081.49	2.90	2.52			
0.00	0	0.00	1.07	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.99	60	56512.20	1.07	26348.93	28927.37	1234.83	1231.34	3.49	2.85	0.95	29077.29	29077.22

111 2014 TRISPON 49 9 20.098 123 34 39.630

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.98	72	27436.67	1.07	26350.40	0.00	1085.20	1082.37	2.83	2.53			
0.00	0	0.00	1.07	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.98	60	56509.97	1.07	26348.93	28927.37	1232.60	1229.23	3.37	2.85	0.95	29074.25	29074.23

111 2016 TRISPON 49 9 6.602 123 34 14.157

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.96	72	27437.68	1.07	26350.40	0.00	1086.21	1083.27	2.94	2.54			
0.00	0	0.00	1.07	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.97	60	56507.74	1.07	26348.93	28927.37	1230.37	1227.01	3.36	2.85	0.95	29071.01	29071.11

111 2018 TRISPON 49 8 52.621 123 33 48.945

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.96	71	27438.65	1.07	26350.40	0.00	1087.18	1084.23	2.95	2.55			
0.00	0	0.00	1.07	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.98	61	56505.53	1.07	26348.93	28927.37	1228.16	1224.78	3.38	2.85	0.95	29067.83	29067.92

111 2022 TRISPON 49 8 25.332 123 32 58.904

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.99	71	27440.63	1.07	26350.40	0.00	1089.16	1086.10	3.06	2.56			
0.00	0	0.00	1.07	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.98	60	56501.11	1.07	26348.93	28927.37	1223.74	1220.38	3.36	2.86	0.95	29061.43	29061.65

111 2024 TRISPON 49 8 17.132 123 32 28.184

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.00	71	27441.00	1.07	26350.40	0.00	1089.53	1086.40	3.13	2.53			
0.00	0	0.00	1.07	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.96	61	56498.99	1.07	26348.93	28927.37	1221.62	1218.22	3.40	2.86	0.95	29058.94	29059.19

111 2026 TRISPON 49 8 9.622 123 31 57.392

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.97	70	27441.17	1.07	26350.40	0.00	1089.70	1086.64	3.06	2.50			
0.00	0	0.00	1.07	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.95	61	56496.87	1.07	26348.93	28927.37	1219.50	1216.10	3.40	2.86	0.95	29056.65	29056.83

111 2028 TRISPON 49 8 1.629 123 31 26.594

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.96	70	27441.45	1.07	26350.40	0.00	1089.98	1086.93	3.05	2.51			
0.00	0	0.00	1.07	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.95	60	56494.74	1.07	26348.93	28927.37	1217.37	1213.95	3.42	2.86	0.95	29054.24	29054.39

111 2030 TRISPON 49 7 53.034 123 30 56.604

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.93	69	27441.71	1.07	26350.40	0.00	1090.24	1087.29	2.95	2.49			
0.00	0	0.00	1.07	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.95	60	56492.63	1.07	26348.93	28927.37	1215.26	1211.80	3.46	2.87	0.95	29051.87	29051.88

111 2032 TRISPON 49 7 47.049 123 30 26.094

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.96	69	27441.92	1.07	26350.40	0.00	1090.45	1087.39	3.06	2.55			
0.00	0	0.00	1.07	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.96	61	56490.57	1.07	26348.93	28927.37	1213.20	1209.80	3.40	2.87	0.95	29049.60	29049.78

111 2034 TRISPON 49 7 33.838 123 30 1.096

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.94	69	27442.71	1.07	26350.40	0.00	1091.24	1088.31	2.93	2.53			
0.00	0	0.00	1.07	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.96	61	56488.43	1.07	26348.93	28927.37	1211.06	1207.62	3.44	2.87	0.95	29046.67	29046.68

111 2036 TRISPON 49 7 19.791 123 29 37.164

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.96	88	27443.71	1.07	26350.40	0.00	1092.24	1089.33	2.91	2.55			
0.00	0	0.00	1.07	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.96	63	56486.24	1.07	26348.93	28927.37	1208.87	1205.46	3.41	2.88	0.95	29043.48	29043.50

111 2038 TRISPON 49 7 5.435 123 29 12.973

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.96	96	27444.26	1.07	26350.40	0.00	0.00	0.00	0.00	0.00			
0.00	0	0.00	1.07	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.96	60	56484.03	1.07	26348.93	28927.37	1206.66	1203.25	3.41	2.88	0.95	0.00	0.00

111 2040 TRISPON 49 6 51.200 123 28 48.277

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.96	99	27445.34	1.07	26350.40	0.00	0.00	0.00	0.00	0.00			
0.00	0	0.00	1.07	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.94	62	56481.84	1.07	26348.93	28927.37	1204.47	1201.03	3.44	2.88	0.95	0.00	0.00

111 2042 TRISPON 49 6 37.046 123 28 23.427

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.00	83	27446.07	1.07	26350.40	0.00	0.00	0.00	0.00	0.00			
0.00	0	0.00	1.07	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.96	61	56479.60	1.07	26348.93	28927.37	1202.23	1198.81	3.42	2.89	0.95	0.00	0.00

111 2044 TRISPON 49 6 28.213 123 27 53.160

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.05	83	27446.89	1.07	26350.40	0.00	0.00	0.00	0.00	0.00			
0.00	0	0.00	1.07	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.95	61	56477.47	1.07	26348.93	28927.37	1200.10	1196.63	3.47	2.90	0.95	0.00	0.00

111 2046 TRISPON 49 6 21.019 123 27 22.553

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.07	94	27447.83	1.07	26350.40	0.00	0.00	0.00	0.00	0.00			
0.00	0	0.00	1.07	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.96	61	56475.35	1.07	26348.93	28927.37	1197.98	1194.54	3.44	2.91	0.95	0.00	0.00

111 2048 TRISPON 49 6 13.748 123 26 51.737

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
3.08	98	27448.64	1.07	26350.40	0.00	0.00	0.00	0.00	0.00				T
0.00	0	0.00	1.07	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00	
2.96	61	56473.25	1.07	26348.93	28927.37	1195.88	1192.44	3.44	2.92	0.95	0.00	0.00	

111 2050 TRISPON 49 6 7.291 123 26 22.833

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
3.11	83	27449.30	1.08	26350.40	0.00	0.00	0.00	0.00	0.00				T
0.00	0	0.00	1.08	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00	
2.97	61	56471.28	1.08	26348.93	28927.37	1193.90	1190.48	3.42	2.93	0.95	0.00	0.00	

111 2052 TRISPON 49 6 .510 123 25 53.762

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
3.17	83	27450.06	1.08	26350.40	0.00	0.00	0.00	0.00	0.00				T
0.00	0	0.00	1.08	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00	
2.94	62	56469.32	1.08	26348.93	28927.37	1191.94	1188.50	3.44	2.94	0.95	0.00	0.00	

111 2054 TRISPON 49 5 50.668 123 25 27.511

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
3.21	83	27450.79	1.08	26350.40	0.00	0.00	0.00	0.00	0.00				T
0.00	0	0.00	1.08	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00	
2.97	61	56467.32	1.08	26348.93	28927.37	1189.94	1186.47	3.47	2.91	0.95	0.00	0.00	

111 2056 1D + DR 49 5 37.601 123 25 4.874

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
3.26	83	27451.45	1.08	26350.40	0.00	0.00	0.00	0.00	0.00				T
0.00	0	0.00	1.08	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00	
2.99	62	56465.25	1.08	26348.93	28927.37	1187.87	1184.43	3.44	2.92	0.95	0.00	0.00	

111 2058 TRISPON 49 5 24.530 123 24 42.238

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.31	83	27452.09	1.08	26350.40	0.00	0.00	0.00	0.00	0.00			
0.00	0	0.00	1.08	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.98	62	56463.25	1.08	26348.93	28927.37	1185.87	1182.40	3.47	2.92	0.95	0.00	0.00

111 21 0 TRISPON 49 5 10.794 123 24 24.955

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.37	83	27452.80	1.08	26350.40	0.00	0.00	0.00	0.00	0.00			
0.00	0	0.00	1.08	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.98	61	56461.29	1.08	26348.93	28927.37	1183.91	1180.60	3.31	2.92	0.95	0.00	0.00

E4

111 21 2 TRISPON 49 4 56.723 123 24 6.500

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.45	83	27453.69	1.08	26350.40	0.00	0.00	0.00	0.00	0.00			
0.00	0	0.00	1.08	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.98	61	56459.35	1.08	26348.93	28927.37	1181.97	1178.72	3.25	2.94	0.95	0.00	0.00

E4

111 21 4 TRISPON 49 4 36.211 123 24 3.698

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.17	72	27454.94	1.08	26350.40	0.00	0.00	0.00	0.00	0.00			
0.00	0	0.00	1.08	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.95	63	56457.70	1.08	26348.93	28927.37	1180.32	1177.27	3.05	2.91	0.95	0.00	0.00

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111 21 6 TRISPON 49 4 14.867 123 24 7.850

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.95	70	27459.46	1.08	26350.40	0.00	1107.98	1102.85	5.13	2.28			
0.00	0	0.00	1.08	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.97	61	56455.81	1.08	26348.93	28927.37	1178.43	1176.14	2.29	2.91	0.95	28997.30	29000.66

111 21 8 TRISPON 49 3 52.624 123 24 11.134

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.95	70	27459.46	1.08	26350.40	0.00	1107.98	1105.13	2.85	2.28			
0.00	0	0.00	1.08	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.97	61	56455.81	1.08	26348.93	28927.37	1178.43	1174.90	3.53	2.91	0.95	28997.30	28997.14

111 2110 TRISPON 49 3 43.911 123 23 46.659

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.99	71	27460.28	1.08	26350.40	0.00	1108.80	1105.66	3.14	2.28			
0.00	0	0.00	1.08	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.00	60	56454.07	1.08	26348.93	28927.37	1176.69	1173.04	3.65	2.91	0.95	28994.74	28994.75

111 2112 TRISPON 49 3 27.656 123 23 28.361

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.95	71	27461.33	1.08	26350.40	0.00	1109.85	1107.03	2.82	2.28			
0.00	0	0.00	1.08	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.99	60	56451.95	1.08	26348.93	28927.37	1174.57	1171.04	3.53	2.91	0.95	28991.57	28991.38

111 2114 TRISPON 49 3 11.243 123 23 8.224

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.96	71	27462.71	1.08	26350.40	0.00	1111.23	1108.40	2.83	2.31			
0.00	0	0.00	1.08	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.96	59	56449.78	1.08	26348.93	28927.37	1172.40	1168.92	3.48	2.91	0.95	28988.02	28987.89

111 2116 TRISPON 49 2 55.130 123 22 47.391

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.99	70	27464.07	1.08	26350.40	0.00	1112.59	1109.72	2.87	2.33			
0.00	0	0.00	1.08	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.97	59	56447.62	1.08	26348.93	28927.37	1170.24	1166.79	3.45	2.90	0.95	28984.50	28984.44

111 2118 TRISPON 49 2 38.770 123 22 25.790

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.98	71	27465.44	1.08	26350.40	0.00	1113.96	1111.07	2.89	2.35			
0.00	0	0.00	1.08	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.96	60	56445.44	1.08	26348.93	28927.37	1168.06	1164.59	3.47	2.89	0.95	28980.95	28980.89

111 2120 TRISPON 49 2 22.845 123 22 3.365

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.95	71	27466.75	1.08	26350.40	0.00	1115.27	1112.36	2.91	2.45			
0.00	0	0.00	1.08	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.97	60	56443.25	1.08	26348.93	28927.37	1165.87	1162.39	3.48	2.90	0.95	28977.45	28977.40

111 2122 TRISPON 49 2 7.155 123 21 40.985

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.97	71	27468.03	1.08	26350.40	0.00	1116.55	1113.63	2.92	2.46			
0.00	0	0.00	1.08	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.97	60	56441.05	1.08	26348.93	28927.37	1163.67	1160.20	3.47	2.91	0.95	28973.97	28973.94

111 2124 TRISPON 49 1 51.848 123 21 18.425

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.98	70	27469.29	1.08	26350.40	0.00	1117.81	1114.86	2.95	2.47			
0.00	0	0.00	1.08	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.00	60	56438.87	1.08	26348.93	28927.37	1161.49	1158.02	3.47	2.91	0.95	28970.53	28970.53

111 2126 TRISPON 49 1 34.803 123 20 54.814

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.99	70	27470.59	1.08	26350.40	0.00	1119.11	1116.26	2.85	2.54			
0.00	0	0.00	1.08	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.99	60	56436.68	1.08	26348.93	28927.37	1159.30	1155.68	3.62	2.92	0.95	28967.04	28966.79

111 2128 TRISPON 49 1 20.522 123 20 33.594

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.01	70	27471.87	1.08	26350.40	0.00	1120.39	1117.41	2.98	2.57			
0.00	0	0.00	1.08	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.00	60	56434.50	1.08	26348.93	28927.37	1157.12	1153.64	3.48	2.92	0.95	28963.58	28963.60

111 2130 TRISPON 49 1 4.158 123 20 10.969

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.00	70	27473.11	1.08	26350.40	0.00	1121.63	1118.76	2.87	2.58			
0.00	0	0.00	1.08	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.99	60	56432.32	1.08	26348.93	28927.37	1154.94	1151.39	3.55	2.92	0.95	28960.16	28960.00

111 2132 TRISPON 49 1 14.739 123 19 46.627

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.01	71	27472.48	1.08	26350.40	0.00	1121.00	1117.36	3.64	2.58			
0.00	0	0.00	1.08	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.95	61	56431.18	1.08	26348.93	28927.37	1153.80	1150.76	3.04	2.93	0.95	28959.65	28960.77

111 2134 TRISPON 49 1 30.468 123 19 23.173

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.00	70	27470.23	1.08	26350.40	0.00	1118.75	1115.46	3.29	2.58			
0.00	0	0.00	1.08	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.96	60	56431.18	1.08	26348.93	28927.37	1153.80	1150.50	3.30	2.93	0.95	28961.90	28962.41

111 2136 TRISPON 49 1 46.521 123 19 .219

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.98	70	27468.16	1.08	26350.40	0.00	1116.68	1113.53	3.15	2.61			
0.00	0	0.00	1.08	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.00	61	56431.08	1.08	26348.93	28927.37	1153.70	1150.29	3.41	2.94	0.95	28963.87	28964.13

111 2138 TRISPON 49 2 1.914 123 18 37.628

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.99	70	27466.28	1.08	26350.40	0.00	1114.80	1111.67	3.13	2.62			
0.00	0	0.00	1.08	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.00	60	56430.87	1.08	26348.93	28927.37	1153.49	1150.06	3.43	2.94	0.95	28965.54	28965.76

111 2140 TRISPON 49 2 17.523 123 18 14.141

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.99	70	27464.42	1.08	26350.40	0.00	1112.94	1109.79	3.15	2.63			
0.00	0	0.00	1.08	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.01	61	56430.64	1.08	26348.93	28927.37	1153.26	1149.81	3.45	2.93	0.95	28967.17	28967.39

111 2142 TRISPON 49 2 35.001 123 18 23.469

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.96	70	27462.60	1.09	26350.40	0.00	1111.11	1108.13	2.98	2.63			
0.00	0	0.00	1.09	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.91	61	56431.69	1.09	26348.93	28927.37	1154.30	1151.41	2.89	2.92	0.95	28970.04	28970.65

111 2144 TRISPON 49 2 51.379 123 18 46.021

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.96	70	27461.31	1.09	26350.40	0.00	1109.82	1106.77	3.05	2.63			
0.00	0	0.00	1.09	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.96	60	56434.34	1.09	26348.93	28927.37	1156.95	1153.66	3.29	2.92	0.95	28973.98	28974.26

111 2148 TRISPON 49 3 23.786 123 19 36.504

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.97	70	27458.70	1.09	26350.40	0.00	1107.21	1104.18	3.03	2.59			
0.00	0	0.00	1.09	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.99	60	56439.20	1.09	26348.93	28927.37	1161.81	1158.42	3.39	2.91	0.95	28981.45	28981.61

111 2150 TRISPON 49 3 40.146 123 20 .511

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.97	71	27457.36	1.09	26350.40	0.00	1105.87	1102.85	3.02	2.56			
0.00	0	0.00	1.09	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.98	60	56441.56	1.09	26348.93	28927.37	1164.17	1160.74	3.43	2.91	0.95	28985.15	28985.26

111 2152 TRISPON 49 3 56.293 123 20 25.687

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.97	70	27456.05	1.09	26350.40	0.00	1104.56	1101.56	3.00	2.49			
0.00	0	0.00	1.09	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.98	60	56443.92	1.09	26348.93	28927.37	1166.53	1163.11	3.42	2.91	0.95	28988.82	28988.92

111 2154 TRISPON 49 4 11.841 123 20 51.731

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.99	70	27454.81	1.09	26350.40	0.00	1103.32	1100.36	2.96	2.56			
0.00	0	0.00	1.09	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.98	60	56446.30	1.09	26348.93	28927.37	1168.91	1165.49	3.42	2.91	0.95	28992.44	28992.50

111 2156 TRISPON 49 4 30.189 123 21 7.700

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.00	71	27453.36	1.09	26350.40	0.00	1101.87	1098.73	3.14	2.53			
0.00	0	0.00	1.09	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.01	60	56448.56	1.09	26348.93	28927.37	1171.17	1167.51	3.66	2.88	0.95	28996.15	28996.15

111 2158 TRISPON 49 4 51.975 123 21 5.241

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.00	70	27451.10	1.09	26350.40	0.00	1099.61	1096.49	3.12	2.52			
0.00	0	0.00	1.09	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.00	61	56449.75	1.09	26348.93	28927.37	1172.36	1168.78	3.58	2.88	0.95	28999.60	28999.66

111 22 0 TRISPON 49 5 13.450 123 21 4.332

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.99	70	27448.79	1.09	26350.40	0.00	1097.30	1094.31	2.99	2.51			
0.00	0	0.00	1.09	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.96	60	56450.96	1.09	26348.93	28927.37	1173.57	1170.11	3.46	2.88	0.95	29003.12	29003.17

111 22 2 TRISPON 49 5 35.077 123 21 5.404

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.00	71	27446.58	1.09	26350.40	0.00	1095.09	1092.15	2.94	2.51			
0.00	0	0.00	1.09	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.97	61	56452.38	1.09	26348.93	28927.37	1174.99	1171.56	3.43	2.89	0.95	29006.75	29006.78

111 22 4 TRISPON 49 5 57.703 123 21 6.224

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.98	71	27444.38	1.09	26350.40	0.00	1092.89	1089.88	3.01	2.49			
0.00	0	0.00	1.09	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.99	60	56453.87	1.09	26348.93	28927.37	1176.48	1173.06	3.42	2.90	0.95	29010.44	29010.55

111 22 6 TRISPON 49 6 19.421 123 21 5.123

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.99	71	27442.10	1.09	26350.40	0.00	1090.61	1087.67	2.94	2.49			
0.00	0	0.00	1.09	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
2.99	60	56455.27	1.09	26348.93	28927.37	1177.88	1174.41	3.47	2.89	0.95	29014.12	29014.11

111 22 8 TRISPON 49 6 42.632 123 21 2.126

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.00	71	27439.78	1.09	26350.40	0.00	1088.29	1085.29	3.00	2.50			
0.00	0	0.00	1.09	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00
3.00	60	56456.60	1.09	26348.93	28927.37	1179.21	1175.75	3.46	2.89	0.95	29017.77	29017.83

111 2210 TRISPON 49 7 5.739 123 20 58.502

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
3.00	71	27437.39	1.09	26350.40	0.00	1085.90	1082.91	2.99	2.49				
0.00	0	0.00	1.09	26349.44	13343.58	0.00	0.00	0.00	0.00	0.52	0.00	0.00	
2.98	60	56457.89	1.09	26348.93	28927.37	1180.50	1177.06	3.44	2.90	0.95	29021.45	29021.52	

111 2216 TRISPON 49 8 15.427 123 20 40.464

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
2.99	71	27430.08	1.09	26350.40	0.00	1078.59	1075.62	2.97	2.50				
2.72	86	42677.35	1.09	26349.44	13343.58	2983.24	2950.23	33.01	4.64	0.52	15247.79	15218.19	S
2.99	60	56461.53	1.09	26348.93	28927.37	1184.14	1180.66	3.48	3.00	0.95	29032.40	29032.41	

111 2224 TRISPON 49 9 50.800 123 20 24.065

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
3.00	71	27420.32	1.09	26350.40	0.00	1068.83	1065.77	3.06	2.52				
2.71	85	42670.03	1.09	26349.44	13343.58	2975.92	2942.76	33.16	4.77	0.52	15250.23	15220.57	S
2.98	60	56466.96	1.09	26348.93	28927.37	1189.57	1186.06	3.51	3.05	0.95	29047.59	29047.66	

111 2226 TRISPON 49 10 13.979 123 20 23.995

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
3.00	71	27417.94	1.09	26350.40	0.00	1066.45	1063.44	3.01	2.54				
2.71	86	42668.02	1.09	26349.44	13343.58	2973.91	2940.79	33.12	4.77	0.52	15250.60	15220.93	S
2.99	60	56468.53	1.09	26348.93	28927.37	1191.14	1187.59	3.55	3.11	0.95	29051.54	29051.52	

111 2228 TRISPON 49 10 37.269 123 20 24.769

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
3.02	71	27415.58	1.09	26350.40	0.00	1064.09	1061.10	2.99	2.55				
2.71	86	42666.00	1.09	26349.44	13343.58	2971.89	2938.79	33.10	4.79	0.52	15250.94	15221.27	S
3.00	60	56470.07	1.09	26348.93	28927.37	1192.68	1189.17	3.51	3.27	0.95	29055.44	29055.44	

111 2230 TRISPON 49 11 .308 123 20 23.636

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
3.03	71	27413.24	1.09	26350.40	0.00	1061.75	1058.76	2.99	2.55				
2.68	86	42664.08	1.09	26349.44	13343.58	2969.97	2936.88	33.09	4.80	0.52	15251.36	15221.70	S
2.99	60	56471.60	1.09	26348.93	28927.37	1194.21	1190.64	3.57	3.29	0.95	29059.31	29059.25	

111 2232 TRISPON 49 11 22.247 123 20 12.739

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
3.00	71	27410.88	1.09	26350.40	0.00	1059.39	1056.39	3.00	2.56				
2.66	86	42662.55	1.09	26349.44	13343.58	2968.44	2935.44	33.00	4.83	0.52	15252.19	15222.63	S
3.02	60	56472.58	1.09	26348.93	28927.37	1195.19	1191.53	3.66	3.29	0.95	29062.65	29062.51	

111 2234 TRISPON 49 11 44.451 123 20 1.492

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
3.02	71	27408.49	1.09	26350.40	0.00	1057.00	1054.00	3.00	2.56				
2.66	86	42661.16	1.09	26349.44	13343.58	2967.05	2933.99	33.06	4.84	0.52	15253.19	15223.57	S
3.00	61	56473.38	1.09	26348.93	28927.37	1195.99	1192.43	3.56	3.42	0.95	29065.84	29065.80	

111 2236 TRISPON 49 12 6.719 123 19 49.725

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
3.00	71	27406.11	1.10	26350.40	0.00	1054.61	1051.57	3.04	2.57				
2.66	86	42659.71	1.10	26349.44	13343.58	2965.59	2932.55	33.04	4.86	0.52	15254.12	15224.56	S
3.01	61	56474.24	1.10	26348.93	28927.37	1196.84	1193.30	3.54	3.42	0.95	29069.08	29069.10	

111 2240 TRISPON 49 12 51.915 123 19 27.839

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
3.00	71	27401.28	1.10	26350.40	0.00	1049.78	1046.71	3.07	2.57				
2.64	87	42656.95	1.10	26349.44	13343.58	2962.83	2929.57	33.26	4.86	0.52	15256.19	15226.44	S
3.01	60	56476.13	1.10	26348.93	28927.37	1198.73	1195.19	3.54	3.43	0.95	29075.80	29075.85	

111 2242 TRISPON 49 13 15.742 123 19 26.773

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
3.00	71	27398.85	1.10	26350.40	0.00	1047.35	1044.29	3.06	2.58				
2.65	87	42654.92	1.10	26349.44	13343.58	2960.80	2927.60	33.20	4.87	0.52	15256.59	15226.89	S
2.97	60	56477.66	1.10	26348.93	28927.37	1200.26	1196.74	3.52	3.46	0.95	29079.76	29079.82	

111 2244 TRISPON 49 13 39.910 123 19 26.082

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
2.98	71	27396.44	1.10	26350.40	0.00	1044.94	1041.84	3.10	2.58				
2.67	87	42652.94	1.10	26349.44	13343.58	2958.82	2925.58	33.24	4.87	0.52	15257.02	15227.32	S
3.00	60	56479.33	1.10	26348.93	28927.37	1201.93	1198.33	3.60	3.51	0.95	29083.84	29083.86	

111 2246 TRISPON 49 14 3.199 123 19 26.518

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
2.99	71	27394.06	1.10	26350.40	0.00	1042.56	1039.50	3.06	2.59				
2.64	88	42650.92	1.10	26349.44	13343.58	2956.80	2923.59	33.21	4.87	0.52	15257.38	15227.67	S
2.97	60	56480.96	1.10	26348.93	28927.37	1203.56	1199.92	3.64	3.55	0.95	29087.85	29087.79	

111 2248 TRISPON 49 14 27.100 123 19 27.047

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
2.99	71	27391.68	1.10	26350.40	0.00	1040.18	1037.10	3.08	2.59				
2.66	87	42648.85	1.10	26349.44	13343.58	2954.73	2921.55	33.18	4.88	0.52	15257.69	15228.03	S
2.97	60	56482.58	1.10	26348.93	28927.37	1205.18	1201.56	3.62	3.57	0.95	29091.85	29091.83	

111 2250 TRISPON 49 14 50.088 123 19 19.070

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
3.00	71	27389.27	1.10	26350.40	0.00	1037.77	1034.67	3.10	2.60				
2.65	88	42647.21	1.10	26349.44	13343.58	2953.09	2919.92	33.17	4.88	0.52	15258.46	15228.83	S
2.98	60	56483.88	1.10	26348.93	28927.37	1206.48	1202.71	3.77	3.59	0.95	29095.56	29095.41	

111 2252 TRISPON 49 15 12.433 123 19 7.302

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
3.01	71	27386.88	1.10	26350.40	0.00	1035.38	1032.25	3.13	2.61				
2.65	88	42645.91	1.10	26349.44	13343.58	2951.79	2918.49	33.30	4.89	0.52	15259.55	15229.82	S
2.97	60	56484.73	1.10	26348.93	28927.37	1207.33	1203.63	3.70	3.59	0.95	29098.80	29098.75	

111 2254 TRISPON 49 15 35.018 123 18 58.726

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
3.00	72	27384.44	1.10	26350.40	0.00	1032.94	1029.85	3.09	2.61				
2.63	88	42644.34	1.10	26349.44	13343.58	2950.22	2916.92	33.30	4.89	0.52	15260.42	15230.65	S
2.96	61	56485.69	1.10	26348.93	28927.37	1208.29	1204.72	3.57	3.61	0.95	29102.20	29102.24	

111 2258 TRISPON 49 16 20.952 123 18 34.968

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
3.02	72	27379.55	1.10	26350.40	0.00	1028.05	1024.88	3.17	2.62				
2.60	88	42641.34	1.10	26349.44	13343.58	2947.22	2913.97	33.25	4.90	0.52	15262.31	15232.67	S
2.96	61	56487.75	1.10	26348.93	28927.37	1210.35	1206.65	3.70	3.67	0.95	29109.15	29109.14	

111 23 6 TRISPON 49 17 46.502 123 19 2.174

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
3.01	72	27371.17	1.10	26350.40	0.00	1019.67	1016.66	3.01	2.37				
2.55	88	42633.43	1.10	26349.44	13343.58	2939.31	2905.70	33.61	5.08	0.52	15262.78	15232.62	S
2.94	61	56494.89	1.10	26348.93	28927.37	1217.49	1213.88	3.61	3.68	0.95	29124.67	29124.59	

111 23 8 TRISPON 49 18 5.412 123 19 19.119

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
3.02	72	27369.39	1.10	26350.40	0.00	1017.89	1015.00	2.89	2.38				
2.56	89	42631.11	1.10	26349.44	13343.58	2936.99	2903.45	33.54	5.08	0.52	15262.24	15232.03	S
2.95	59	56497.24	1.10	26348.93	28927.37	1219.84	1216.03	3.81	3.68	0.95	29128.80	29128.40	

111 2310 TRISPON 49 18 25.737 123 19 38.642

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
3.02	73	27367.65	1.10	26350.40	0.00	1016.15	1013.24	2.91	2.38				
2.57	89	42628.74	1.10	26349.44	13343.58	2934.62	2900.97	33.65	5.09	0.52	15261.61	15231.31	S
2.93	60	56499.56	1.10	26348.93	28927.37	1222.16	1218.41	3.75	3.73	0.95	29132.86	29132.54	

111 2312 TRISPON 49 18 44.906 123 19 56.328

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
3.01	72	27365.93	1.10	26350.40	0.00	1014.43	1011.57	2.86	2.38				
2.57	89	42626.46	1.10	26349.44	13343.58	2932.34	2898.67	33.67	5.11	0.52	15261.05	15230.68	S
2.94	60	56501.85	1.10	26348.93	28927.37	1224.45	1220.62	3.83	3.72	0.95	29136.87	29136.42	

111 2314 TRISPON 49 19 4.792 123 20 15.578

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
2.99	72	27364.32	1.10	26350.40	0.00	1012.82	1009.86	2.96	2.42				
2.54	90	42624.14	1.10	26349.44	13343.58	2930.02	2896.25	33.77	5.11	0.52	15260.34	15229.97	S
2.94	60	56504.11	1.10	26348.93	28927.37	1226.71	1222.95	3.76	3.72	0.95	29140.74	29140.46	

111 2316 TRISPON 49 19 16.738 123 20 39.602

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
2.97	72	27363.14	1.10	26350.40	0.00	1011.64	1009.01	2.63	2.51				
2.56	89	42622.10	1.10	26349.44	13343.58	2927.98	2894.31	33.67	5.13	0.52	15259.48	15228.88	S
2.96	60	56506.29	1.10	26348.93	28927.37	1228.89	1224.98	3.91	3.71	0.95	29144.10	29143.34	

111 2318 TRISPON 49 19 12.966 123 21 11.304

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
2.96	71	27364.26	1.10	26350.40	0.00	1012.76	1009.87	2.89	2.55				
2.54	90	42621.25	1.10	26349.44	13343.58	2927.13	2893.39	33.74	5.13	0.52	15257.51	15227.10	S
2.96	59	56507.59	1.10	26348.93	28927.37	1230.19	1226.32	3.87	3.71	0.95	29144.28	29143.82	

111 2322 TRISPON 49 18 56.293 123 21 19.405

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
3.00	72	27366.73	1.10	26350.40	0.00	1015.20	1011.67	3.53	2.55				
2.47	90	42621.96	1.10	26349.44	13343.58	2927.84	2894.48	33.36	5.13	0.52	15255.78	15226.39	S
3.03	60	56507.17	1.10	26348.93	28927.37	1229.77	1225.58	4.19	3.71	0.95	29141.42	29141.28	

111 2324 TRISPON 49 18 53.403 123 20 46.128

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
2.99	71	27366.19	1.10	26350.40	0.00	1014.69	1011.46	3.23	2.42				
2.45	89	42623.82	1.10	26349.44	13343.58	2929.70	2896.02	33.68	5.13	0.52	15258.15	15228.14	S
2.98	60	56505.00	1.10	26348.93	28927.37	1227.60	1223.71	3.89	3.71	0.95	29139.76	29139.62	

111 2328 TRISPON 49 18 48.483 123 19 38.680

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
3.00	72	27365.36	1.10	26350.40	0.00	1013.86	1010.95	2.91	2.38				
2.55	84	42636.99	1.10	26349.44	13343.58	2942.87	2899.06	43.81	5.11	0.52	15272.15	15231.69	S
2.96	60	56501.15	1.10	26348.93	28927.37	1223.75	1219.98	3.77	3.80	0.95	29136.74	29136.40	

111 2330 TRISPON 49 18 45.941 123 19 4.883

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
3.02	73	27365.10	1.11	26350.40	0.00	1013.59	1010.70	2.89	2.38				
2.78	84	42638.46	1.11	26349.44	13343.58	2944.33	2900.59	43.74	5.09	0.52	15273.88	15233.47	S
2.94	59	56499.29	1.11	26348.93	28927.37	1221.88	1218.09	3.79	3.83	0.95	29135.14	29134.76	

111 2332 TRISPON 49 18 43.437 123 18 30.663

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
3.03	73	27364.94	1.11	26350.40	0.00	1013.43	1010.46	2.97	2.41				
3.01	85	42639.82	1.11	26349.44	13343.58	2945.69	2902.13	43.56	5.09	0.52	15275.40	15235.25	S
2.95	59	56497.41	1.11	26348.93	28927.37	1220.00	1216.21	3.79	3.85	0.95	29133.42	29133.12	

111 2334 TRISPON 49 18 40.608 123 17 56.232

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
3.02	72	27364.86	1.11	26350.40	0.00	1013.35	1010.25	3.10	2.47				
3.12	85	42641.25	1.11	26349.44	13343.58	2947.12	2903.71	43.41	5.08	0.52	15276.91	15237.04	S
2.95	60	56495.55	1.11	26348.93	28927.37	1218.14	1214.29	3.85	3.90	0.95	29131.64	29131.41	

APPENDIX 2

U.S. WEST COAST CHAIN

EXPLANATION

Line 1	Julian Day Number, Greenwich Mean Time (GMT), Method of Position Fixing, Latitude and Longitude (degrees, minutes & seconds)
Line 4	(Fallon, Nevada)
Line 5	(George, Washington)
Line 6	(Middletown, California)
CYCLE	Tracking point of receiver on cycle within pulse
GAIN	Gain number from receiver - indirectly related to signal strength
OBS TOA	Actual observed values of Time of Arrival from receiver
CLOCK RATE	Clock rate correction that has to be subtracted from the observed value
CLOCK SYNCH	Clock synchronization constant that has to be subtracted from the observed value
EMISSION DELAY	Summation of Coding Delay + Baseline Travel Time (for an all seawater path) that has to be subtracted from the observed value
CORR TOA	Corrected Time of Arrival = OBS TOA - CLOCK RATE - CLOCK SYNCH - EMISSION DELAY
CALC TOA	Calculated TOA based on an all seawater path between transmitter and receiver
OBS ASF	Observed Additional Secondary Factor (or Correction) ASF (or ASC) = CORR TOA - CALC TOA
CALC ASF	Calculated ASF based on Millington's Method (over smooth earth) using 0.0006 mho/m. land conductivity
MON. CORR	Change in the Time Difference (T.D.) at Monitor sites between date of survey and commissioning of chain
OBS T.D.	Observed hyperbolic value (Time Difference) = OBS TOA (Secondary) - OBS TOA (Master) + MON. CORR (as would be observed after chain commissioning)
CALC T.D.	Calculated Time Difference for an all seawater path = CALC TOA (Secondary) - CALC TOA (Master) + EMISSION DELAY
T	Tracking Error on this TOA
[ ]	TOA's not yet recovered from a change in course

108 1832 SEXTANT 48 42 5.512 123 29 10.570

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.07	85	7267.86	.12	3647.26	0.00	3620.48	3613.09	7.39	6.22			
3.05	59	18563.46	.12	3647.26	13796.97	1119.11	1114.74	4.37	3.29	0.00	11295.60	11298.62
3.03	92	35438.98	.12	3647.26	28094.52	3697.08	3688.84	8.24	6.09	0.00	28171.12	28170.27

108 1834 SEXTANT 48 42 14.184 123 28 40.722

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.06	84	7267.71	.12	3647.26	0.00	3620.33	3613.16	7.17	6.32			
3.00	59	18561.90	.12	3647.26	13796.97	1117.55	1113.48	4.07	3.27	0.00	11294.19	11297.29
3.03	92	35439.66	.12	3647.26	28094.52	3697.76	3689.58	8.18	6.37	0.00	28171.95	28170.94

108 1836 SEXTANT 48 42 24.164 123 28 8.281

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.06	84	7267.53	.12	3647.26	0.00	3620.15	3613.30	6.85	6.64			
2.98	58	18560.39	.12	3647.26	13796.97	1116.04	1112.14	3.90	3.32	0.00	11292.86	11295.81
3.03	91	35440.26	.12	3647.26	28094.52	3698.36	3690.43	7.93	6.43	0.00	28172.73	28171.65

108 1842 SEXTANT 48 42 52.418 123 26 34.274

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.06	84	7267.21	.12	3647.26	0.00	3619.83	3613.64	6.19	5.90			
2.93	59	18556.13	.12	3647.26	13796.97	1111.78	1108.25	3.53	3.26	0.00	11288.92	11291.58
3.04	90	35442.54	.12	3647.26	28094.52	3700.64	3692.85	7.79	6.52	0.00	28175.33	28173.73

108 1844 SEXTANT 48 42 59.929 123 26 .833

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.07	84	7267.37	.12	3647.26	0.00	3619.99	3613.53	6.46	5.79			
2.96	59	18554.79	.12	3647.26	13796.97	1110.44	1106.73	3.71	3.32	0.00	11287.42	11290.17
3.04	90	35443.30	.12	3647.26	28094.52	3701.40	3693.45	7.95	6.52	0.00	28175.93	28174.44

108 1846 SEXTANT 48 43 3.117 123 25 28.722

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.06	83	7266.93	.12	3647.26	0.00	3619.61	3613.03	6.58	5.71			
2.97	59	18553.05	.12	3647.26	13796.97	1108.70	1105.05	3.65	3.21	0.00	11286.06	11288.99
3.04	90	35443.50	.12	3647.26	28094.52	3701.60	3693.62	7.98	6.52	0.00	28176.51	28175.11

108 1850 SEXTANT 48 43 8.701 123 24 19.917

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.07	83	7265.47	.12	3647.26	0.00	3618.09	3611.85	6.24	5.63			
2.98	60	18549.28	.12	3647.26	13796.97	1104.93	1101.40	3.53	3.06	0.00	11283.81	11286.52
3.03	90	35443.34	.12	3647.26	28094.52	3701.44	3693.85	7.59	6.32	0.00	28177.87	28176.52

108 1854 SEXTANT 48 42 43.153 123 23 24.604

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.09	82	7261.92	.12	3647.26	0.00	3614.54	3608.02	6.52	5.65			
2.96	59	18544.77	.12	3647.26	13796.97	1100.42	1096.80	3.62	3.07	0.00	11282.85	11285.75
3.02	90	35440.78	.12	3647.26	28094.52	3698.88	3690.96	7.92	6.14	0.00	28178.86	28177.46

108 1858 SEXTANT 48 42 19.806 123 22 24.261

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.09	82	7257.69	.12	3647.26	0.00	3610.31	3604.28	6.03	5.68			
2.97	59	18540.05	.12	3647.26	13796.97	1095.70	1092.04	3.66	3.09	0.00	11282.36	11284.73
3.02	90	35437.43	.12	3647.26	28094.52	3695.53	3688.27	7.26	6.08	0.00	28179.74	28178.51

108 19 0 SEXTANT 48 42 16.617 123 21 51.499

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.10	83	7256.25	.12	3647.26	0.00	3608.87	3603.16	5.71	5.69			
2.93	58	18537.78	.12	3647.26	13796.97	1093.43	1089.97	3.46	3.09	0.00	11281.53	11283.78
3.00	90	35436.71	.12	3647.26	28094.52	3694.81	3687.78	7.03	6.06	0.00	28180.46	28179.14

108 19 2 SEXTANT 48 42 11.556 123 21 20.942

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.10	83	7254.97	.12	3647.26	0.00	3607.59	3601.92	5.67	5.69			
2.93	59	18535.62	.12	3647.26	13796.97	1091.27	1087.94	3.33	3.10	0.00	11280.65	11282.99
3.00	90	35436.14	.12	3647.26	28094.52	3694.24	3687.12	7.12	6.05	0.00	28181.17	28179.72

108 19 6 SEXTANT 48 42 2.064 123 20 13.444

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.07	82	7252.35	.12	3647.26	0.00	3604.97	3599.34	5.63	5.60			
2.99	59	18531.32	.12	3647.26	13796.97	1086.97	1083.53	3.44	3.06	0.00	11278.97	11281.16
3.00	90	35434.71	.12	3647.26	28094.52	3692.81	3685.83	6.98	5.98	0.00	28182.36	28181.01

108 1912 SEXTANT 48 41 47.993 123 18 32.009

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.03	82	7248.95	.12	3647.26	0.00	3601.57	3595.50	6.07	5.57			
2.93	59	18525.23	.12	3647.26	13796.97	1080.88	1076.93	3.95	2.93	0.00	11276.28	11278.40
3.00	90	35433.07	.12	3647.26	28094.52	3691.17	3683.93	7.24	5.95	0.00	28184.12	28182.95

108 1914 SEXTANT 48 41 44.971 123 18 8.382

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.03	82	7247.82	.12	3647.26	0.00	3600.44	3594.63	5.81	5.57			
2.93	59	18523.36	.12	3647.26	13796.97	1079.01	1075.40	3.61	2.92	0.00	11275.54	11277.74
3.00	90	35432.42	.12	3647.26	28094.52	3690.52	3683.52	7.00	5.95	0.00	28184.60	28183.41

108 1920 SEXTANT 48 41 55.068 123 16 52.548

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.04	82	7246.35	.12	3647.26	0.00	3598.97	3593.75	5.22	5.54			
2.93	59	18519.35	.12	3647.26	13796.97	1075.00	1071.63	3.37	3.10	0.00	11273.00	11274.85
3.00	90	35432.63	.12	3647.26	28094.52	3690.73	3684.23	6.50	5.85	0.00	28186.28	28185.00

108 1922 SEXTANT 48 42 1.095 123 16 30.292

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.07	82	7246.59	.13	3647.26	0.00	3599.20	3593.78	5.42	5.54			
2.93	59	18518.41	.13	3647.26	13796.97	1074.05	1070.69	3.36	3.26	0.00	11271.82	11273.88
3.00	90	35433.38	.13	3647.26	28094.52	3691.47	3684.75	6.72	5.85	0.00	28186.79	28185.49

108 1924 SEXTANT 48 42 7.724 123 16 4.678

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.07	82	7246.71	.13	3647.26	0.00	3599.32	3593.80	5.52	5.54			
2.97	59	18517.45	.13	3647.26	13796.97	1073.09	1069.61	3.48	3.29	0.00	11270.74	11272.78
2.99	90	35434.14	.13	3647.26	28094.52	3692.23	3685.32	6.91	5.85	0.00	28187.43	28186.04

108 1926 SEXTANT 48 42 15.200 123 15 41.253

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.07	82	7246.94	.13	3647.26	0.00	3599.55	3593.95	5.60	5.54			
2.99	59	18516.47	.13	3647.26	13796.97	1072.11	1068.70	3.41	3.21	0.00	11269.53	11271.72
3.00	89	35434.82	.13	3647.26	28094.52	3692.91	3685.99	6.92	5.85	0.00	28187.88	28186.56

108 1928 SEXTANT 48 42 22.859 123 15 17.645

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.07	82	7247.21	.13	3647.26	0.00	3599.82	3594.12	5.70	5.53			
2.94	59	18515.63	.13	3647.26	13796.97	1071.27	1067.79	3.48	3.18	0.00	11268.42	11270.64
3.00	90	35435.50	.13	3647.26	28094.52	3693.59	3686.69	6.90	5.86	0.00	28188.29	28187.09

108 1932 SEXTANT 48 42 34.597 123 14 28.339

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.05	81	7247.62	.13	3647.26	0.00	3600.23	3594.06	6.17	5.78			
3.00	59	18513.68	.13	3647.26	13796.97	1069.32	1065.65	3.67	3.18	0.00	11266.06	11268.56
3.01	89	35436.77	.13	3647.26	28094.52	3694.86	3687.69	7.17	5.86	0.00	28189.15	28188.15

108 1934 SEXTANT 48 42 40.872 123 14 3.473

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.06	80	7247.75	.13	3647.26	0.00	3600.36	3594.07	6.29	5.78			
3.00	61	18512.59	.13	3647.26	13796.97	1068.23	1064.60	3.63	3.15	0.00	11264.84	11267.50
3.01	89	35437.47	.13	3647.26	28094.52	3695.56	3688.24	7.32	5.86	0.00	28189.72	28188.69

108 1940 SEXTANT 48 43 4.255 123 12 42.817

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.08	80	7247.76	.13	3647.26	0.00	3600.37	3594.39	5.98	5.89			
2.97	59	18509.39	.13	3647.26	13796.97	1065.03	1061.38	3.65	3.19	0.00	11261.63	11263.96
3.00	89	35439.45	.13	3647.26	28094.52	3697.54	3690.33	7.21	5.96	0.00	28191.69	28190.46

108 1942 SEXTANT 48 43 11.994 123 12 17.054

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.08	81	7247.81	.13	3647.26	0.00	3600.42	3594.52	5.90	5.89			
2.94	59	18508.38	.13	3647.26	13796.97	1064.02	1060.37	3.65	3.16	0.00	11260.57	11262.82
2.98	89	35440.10	.13	3647.26	28094.52	3698.19	3691.03	7.16	5.91	0.00	28192.29	28191.03

108 1944 SEXTANT 48 43 19.379 123 11 50.475

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.07	81	7247.88	.13	3647.26	0.00	3600.49	3594.59	5.90	5.89			
2.93	60	18507.36	.13	3647.26	13796.97	1063.00	1059.30	3.70	3.16	0.00	11259.48	11261.68
2.97	89	35440.78	.13	3647.26	28094.52	3698.87	3691.69	7.18	5.95	0.00	28192.90	28191.62

108 1948 SEXTANT 48 43 32.460 123 11 1.482

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.96	81	7248.00	.13	3647.26	0.00	3600.61	3594.69	5.92	5.84			
2.98	58	18505.17	.13	3647.26	13796.97	1060.81	1057.30	3.51	3.38	0.00	11257.17	11259.58
2.98	89	35442.07	.13	3647.26	28094.52	3700.16	3692.85	7.31	5.96	0.00	28194.07	28192.68

108 1950 SEXTANT — 48 43 37.022 123 10 33.025

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.97	80	7247.96	.13	3647.26	0.00	3600.57	3594.46	5.11	5.84			
2.97	59	18504.04	.13	3647.26	13796.97	1059.68	1055.96	3.72	3.39	0.00	11256.08	11258.47
2.98	88	35442.65	.13	3647.26	28094.52	3700.74	3693.22	7.52	5.98	0.00	28194.69	28193.28

108 1952 SEXTANT — 48 43 44.058 123 10 8.247

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.98	80	7247.90	.13	3647.26	0.00	3600.51	3594.55	5.96	5.84			
2.94	59	18502.98	.13	3647.26	13796.97	1058.62	1054.98	3.64	3.39	0.00	11255.08	11257.40
2.98	88	35443.11	.13	3647.26	28094.52	3701.20	3693.85	7.35	6.04	0.00	28195.21	28193.82

108 2046 SEX.PLO — 48 45 54.000 123 11 13.000

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.11	81	7261.64	.13	3647.26	0.00	3614.25	3608.66	5.59	5.75			
3.01	60	18513.96	.13	3647.26	13796.97	1069.60	1066.26	3.34	3.30	0.00	11252.32	11254.57
2.90	88	35456.75	.13	3647.26	28094.52	3714.84	3707.48	7.36	6.00	0.00	28195.11	28193.34

108 2050 SEX.PLO — 48 46 15.000 123 12 12.000

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.16	79	7265.25	.13	3647.26	0.00	3617.86	3612.09	5.77	5.83			
3.00	62	18518.68	.13	3647.26	13796.97	1074.32	1070.80	3.52	3.36	0.00	11253.43	11255.68
2.92	88	35459.07	.13	3647.26	28094.52	3717.16	3709.86	7.30	6.03	0.00	28193.82	28192.29

108 2054 SEX.PLO — 48 46 40.800 123 13 3.000

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.12	79	7268.92	.13	3647.26	0.00	3621.53	3615.79	5.74	5.81			
2.99	60	18523.36	.13	3647.26	13796.97	1079.00	1075.17	3.83	3.35	0.00	11254.44	11256.35
2.93	89	35461.72	.13	3647.26	28094.52	3719.81	3712.72	7.09	5.94	0.00	28192.80	28191.45

108 2058 SEX.PLO 48 47 16.800 123 13 40.800

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.12	80	7273.35	.13	3647.26	0.00	3625.96	3620.17	5.79	5.79			
2.97	60	18527.66	.13	3647.26	13796.97	1083.30	1079.41	3.89	3.28	0.00	11254.31	11256.21
2.93	89	35465.64	.13	3647.26	28094.52	3723.73	3716.57	7.16	5.87	0.00	28192.29	28190.92

108 21 4 SEX.PLO 48 48 9.600 123 14 40.000

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.18	80	7280.01	.13	3647.26	0.00	3632.62	3626.69	5.93	5.87			
2.98	60	18533.92	.13	3647.26	13796.97	1089.56	1085.84	3.72	3.28	0.00	11253.91	11256.12
2.92	89	35471.49	.13	3647.26	28094.52	3729.58	3722.24	7.34	5.97	0.00	28191.48	28190.07

108 21 6 SEX.PLO 48 48 29.400 123 15 0.000

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.18	80	7282.23	.13	3647.26	0.00	3634.84	3629.08	5.76	5.86			
2.97	59	18536.05	.13	3647.26	13796.97	1091.69	1088.13	3.56	3.33	0.00	11253.82	11256.02
2.93	89	35473.42	.13	3647.26	28094.52	3731.51	3724.36	7.15	5.95	0.00	28191.19	28189.80

108 2110 SEX.PLO 48 48 46.800 123 15 50.400

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.17	80	7286.00	.14	3647.26	0.00	3638.60	3631.96	6.64	5.96			
3.00	59	18540.28	.14	3647.26	13796.97	1095.91	1091.96	3.95	3.31	0.00	11254.28	11256.97
2.94	90	35476.42	.14	3647.26	28094.52	3734.50	3726.35	8.15	6.03	0.00	28190.42	28188.91

108 2112 SEX.PLO 48 49 4.800 123 16 12.600

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.17	81	7287.42	.14	3647.26	0.00	3640.02	3634.23	5.79	5.96			
2.98	60	18542.48	.14	3647.26	13796.97	1098.11	1094.27	3.84	3.30	0.00	11255.06	11257.01
2.94	90	35477.28	.14	3647.26	28094.52	3735.36	3728.29	7.07	5.99	0.00	28189.86	28188.58

108 2116 SEX.PLO 48 49 12.000 123 17 17.400

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.17	81	7290.25	.14	3647.26	0.00	3642.85	3636.48	6.37	6.04			
2.94	60	18546.80	.14	3647.26	13796.97	1102.43	1098.31	4.12	3.24	0.00	11256.55	11258.80
2.95	90	35478.82	.14	3647.26	28094.52	3736.90	3729.30	7.60	6.03	0.00	28188.57	28187.34

108 2122 SEX.PLO 48 49 36.000 123 18 43.200

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.13	81	7294.49	.14	3647.26	0.00	3647.09	3640.86	6.23	5.85			
2.96	60	18552.73	.14	3647.26	13796.97	1108.36	1104.51	3.85	3.26	0.00	11258.24	11260.62
2.94	90	35481.43	.14	3647.26	28094.52	3739.51	3732.14	7.37	6.38	0.00	28186.94	28185.80

108 2124 SEX.PLO 48 49 40.800 123 19 15.000

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.03	81	7295.70	.14	3647.26	0.00	3648.30	3642.09	6.21	5.85			
2.94	60	18554.72	.14	3647.26	13796.97	1110.35	1106.57	3.78	3.39	0.00	11259.02	11261.45
2.94	89	35482.14	.14	3647.26	28094.52	3740.22	3732.78	7.44	5.90	0.00	28186.44	28185.21

108 2126 SEX.PLO 48 49 44.400 123 19 47.400

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.03	82	7296.71	.14	3647.26	0.00	3649.31	3643.22	6.09	5.60			
2.97	60	18556.70	.14	3647.26	13796.97	1112.33	1108.59	3.74	3.49	0.00	11259.99	11262.34
2.94	90	35482.60	.14	3647.26	28094.52	3740.68	3733.29	7.39	5.94	0.00	28185.89	28184.59

108 2128 SEX.PLO 48 49 57.000 123 20 13.200

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.03	82	7298.19	.14	3647.26	0.00	3650.79	3645.06	5.73	5.55			
2.96	59	18558.89	.14	3647.26	13796.97	1114.52	1110.78	3.74	3.44	0.00	11260.70	11262.69
2.94	90	35483.65	.14	3647.26	28094.52	3741.73	3734.70	7.03	5.88	0.00	28185.46	28184.16

108 2132 SEX.PLO 48 50 24.600 123 20 55.200

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.05	82	7302.21	.14	3647.26	0.00	3654.81	3648.74	6.07	5.54			
2.96	59	18563.46	.14	3647.26	13796.97	1119.09	1114.75	4.34	3.31	0.00	11261.25	11262.98
2.92	90	35486.85	.14	3647.26	28094.52	3744.93	3737.73	7.20	5.88	0.00	28184.64	28183.51

108 2140 SEX.PLO 48 51 12.000 123 22 54.000

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.07	82	7309.79	.14	3647.26	0.00	3662.39	3656.20	6.19	5.67			
2.93	60	18572.39	.14	3647.26	13796.97	1128.02	1124.18	3.84	3.27	0.00	11262.60	11264.95
2.93	90	35492.75	.14	3647.26	28094.52	3750.83	3743.16	7.67	6.11	0.00	28182.96	28181.48

108 2142 SEX.PLO 48 51 22.200 123 23 24.600

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.07	82	7311.60	.14	3647.26	0.00	3664.20	3657.93	6.27	5.72			
2.97	60	18574.66	.14	3647.26	13796.97	1130.29	1126.49	3.80	3.27	0.00	11263.06	11265.53
2.94	90	35494.20	.14	3647.26	28094.52	3752.28	3744.35	7.93	6.29	0.00	28182.60	28180.94

108 2144 SEX.PLO 48 51 37.200 123 23 53.400

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.12	82	7313.52	.14	3647.26	0.00	3666.12	3660.08	6.04	5.72			
2.97	61	18577.01	.14	3647.26	13796.97	1132.64	1128.98	3.66	3.26	0.00	11263.49	11265.87
2.95	90	35495.68	.14	3647.26	28094.52	3753.76	3746.04	7.72	6.29	0.00	28182.16	28180.48

108 2146 SEX.PLO 48 51 52.800 123 24 17.400

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.17	83	7315.53	.14	3647.26	0.00	3668.13	3662.17	5.96	5.68			
2.96	60	18579.39	.14	3647.26	13796.97	1135.02	1131.24	3.78	3.25	0.00	11263.86	11266.04
2.94	90	35497.24	.14	3647.26	28094.52	3755.32	3747.76	7.56	6.18	0.00	28181.71	28180.11

108 2148 SEX.PLO 48 52 7.800 123 24 42.600

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.19	82	7317.63	.14	3647.26	0.00	3670.23	3664.23	6.00	5.60			
2.95	59	18581.75	.14	3647.26	13796.97	1137.38	1133.53	3.85	3.24	0.00	11264.12	11266.27
2.94	90	35499.01	.14	3647.26	28094.52	3757.09	3749.42	7.67	6.28	0.00	28181.38	28179.71

108 2152 SEX.PLO 48 52 37.200 123 25 36.000

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.20	82	7321.81	.14	3647.26	0.00	3674.41	3668.37	6.04	5.61			
2.95	59	18586.39	.14	3647.26	13796.97	1142.02	1138.25	3.77	3.23	0.00	11264.58	11266.85
2.94	91	35502.33	.14	3647.26	28094.52	3760.41	3752.71	7.70	6.28	0.00	28180.52	28178.86

108 2154 SEX.PLO 48 52 51.600 123 25 58.800

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.19	82	7323.85	.14	3647.26	0.00	3676.45	3670.31	6.14	5.63			
2.93	59	18588.70	.14	3647.26	13796.97	1144.33	1140.37	3.96	3.22	0.00	11264.85	11267.03
2.94	91	35503.98	.14	3647.26	28094.52	3762.06	3754.30	7.76	6.35	0.00	28180.13	28178.51

108 2156 SEX.PLO 48 53 6.600 123 26 24.600

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.19	83	7325.90	.14	3647.26	0.00	3678.50	3672.39	6.11	5.65			
2.94	59	18590.96	.14	3647.26	13796.97	1146.59	1142.69	3.90	3.22	0.00	11265.06	11267.27
2.94	90	35505.61	.14	3647.26	28094.52	3763.69	3755.97	7.72	6.37	0.00	28179.71	28178.10

108 2158 SEX.PLO 48 53 22.200 123 26 46.800

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.19	83	7328.03	.14	3647.26	0.00	3680.63	3674.43	6.20	5.64			
2.94	59	18593.21	.14	3647.26	13796.97	1148.84	1144.85	3.99	3.21	0.00	11265.18	11267.39
2.94	91	35507.15	.14	3647.26	28094.52	3765.23	3757.69	7.54	6.37	0.00	28179.12	28177.78

108 22 0 SEX.PLO 48 53 36.000 123 27 15.600

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.18	83	7330.04	.14	3647.26	0.00	3682.64	3676.47	6.17	5.64			
2.96	60	18595.45	.14	3647.26	13796.97	1151.08	1147.27	3.81	3.09	0.00	11265.41	11267.77
2.93	91	35508.84	.14	3647.26	28094.52	3766.92	3759.25	7.67	6.43	0.00	28178.80	28177.30

108 22 2 SEX.PLO 48 53 49.800 123 27 42.600

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.17	83	7332.04	.14	3647.26	0.00	3684.64	3678.46	6.18	5.63			
2.93	59	18597.73	.14	3647.26	13796.97	1153.36	1149.59	3.77	3.09	0.00	11265.69	11268.10
2.93	91	35510.46	.14	3647.26	28094.52	3768.54	3760.81	7.73	6.47	0.00	28178.42	28176.87

108 22 6 SEX.PLO 48 54 19.200 123 28 34.200

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.16	83	7336.12	.14	3647.26	0.00	3688.72	3682.56	6.16	5.61			
2.94	59	18602.27	.14	3647.26	13796.97	1157.90	1154.21	3.69	3.08	0.00	11266.15	11268.62
2.95	91	35513.77	.14	3647.26	28094.52	3771.85	3764.10	7.75	6.47	0.00	28177.65	28176.06

108 2210 SEX.PLO 48 54 48.000 123 29 24.600

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.14	84	7340.09	.14	3647.26	0.00	3692.69	3686.58	6.11	5.68			
2.94	59	18606.78	.14	3647.26	13796.97	1162.41	1158.72	3.69	3.08	0.00	11266.69	11269.11
2.96	90	35517.10	.14	3647.26	28094.52	3775.18	3767.32	7.86	6.46	0.00	28177.01	28175.26

108 2214 SEX.PLO 48 55 18.600 123 30 10.200

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.12	84	7344.33	.14	3647.26	0.00	3696.93	3690.65	6.28	5.76			
2.94	61	18611.21	.14	3647.26	13796.97	1166.84	1163.06	3.78	3.11	0.00	11266.88	11269.38
2.97	91	35520.55	.14	3647.26	28094.52	3778.63	3770.71	7.92	6.37	0.00	28176.22	28174.58

108 2216 SEX.PLO 48 55 36.000 123 30 37.200

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.10	83	7346.52	.14	3647.26	0.00	3699.12	3692.99	6.13	5.74			
2.94	60	18613.42	.14	3647.26	13796.97	1169.05	1165.60	3.45	3.11	0.00	11266.90	11269.58
2.99	91	35522.44	.14	3647.26	28094.52	3780.52	3772.64	7.88	6.34	0.00	28175.92	28174.17

108 2220 SEX.PLO 48 56 6.600 123 31 22.800

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.09	84	7350.78	.14	3647.26	0.00	3703.38	3697.06	6.32	5.79			
2.92	60	18617.89	.14	3647.26	13796.97	1173.52	1169.95	3.57	3.36	0.00	11267.11	11269.86
3.00	91	35526.07	.14	3647.26	28094.52	3784.15	3776.04	8.11	6.38	0.00	28175.29	28173.50

108 2232 SEX.PLO 48 57 43.200 123 33 37.800

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.06	84	7363.93	.14	3647.26	0.00	3716.50	3709.69	6.81	5.81			
2.92	59	18631.79	.14	3647.26	13796.97	1187.42	1183.18	4.24	3.30	0.00	11267.89	11270.46
2.99	92	35536.85	.14	3647.26	28094.52	3794.93	3786.71	8.22	6.56	0.00	28172.95	28171.54

108 2234 SEX.PLO 48 58 1.200 123 34 3.600

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.03	85	7366.07	.14	3647.26	0.00	3718.67	3712.06	6.61	5.81			
2.93	59	18634.03	.14	3647.26	13796.97	1189.66	1185.68	3.98	3.29	0.00	11267.96	11270.59
3.00	92	35538.80	.14	3647.26	28094.52	3796.88	3788.70	8.18	6.45	0.00	28172.73	28171.16

108 2236 SEX.PLO 48 58 19.200 123 34 24.000

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.02	86	7368.25	.14	3647.26	0.00	3720.85	3714.30	6.55	5.81			
2.94	59	18636.14	.14	3647.26	13796.97	1191.77	1187.88	3.89	3.29	0.00	11267.89	11270.55
3.00	92	35540.57	.14	3647.26	28094.52	3798.65	3790.67	7.98	6.46	0.00	28172.32	28170.89

108 2238 SEX.PLO 48 58 36.000 123 34 42.600

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.01	85	7370.39	.14	3647.26	0.00	3722.99	3716.37	6.62	5.93			
2.96	59	18638.21	.14	3647.26	13796.97	1193.84	1189.91	3.93	3.30	0.00	11267.82	11270.51
3.00	93	35542.35	.14	3647.26	28094.52	3800.43	3792.50	7.93	6.47	0.00	28171.96	28170.65

108 2240 SEX.PLO 48 58 54.000 123 35 6.000

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.01	85	7372.52	.14	3647.26	0.00	3725.12	3718.68	6.44	5.91			
2.94	59	18640.28	.14	3647.26	13796.97	1195.91	1192.28	3.63	3.38	0.00	11267.76	11270.57
3.00	93	35544.31	.14	3647.26	28094.52	3802.39	3794.48	7.91	6.51	0.00	28171.79	28170.32

108 2242 SEX.PLO 48 59 10.200 123 35 24.600

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.02	85	7374.65	.14	3647.26	0.00	3727.25	3720.70	6.55	5.91			
2.94	59	18642.38	.14	3647.26	13796.97	1198.01	1194.27	3.74	3.48	0.00	11267.73	11270.54
3.00	92	35546.05	.14	3647.26	28094.52	3804.13	3796.26	7.87	6.51	0.00	28171.40	28170.08

108 2246 SEX.PLO 48 59 43.200 123 36 3.600

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.98	85	7378.88	.14	3647.26	0.00	3731.48	3724.84	6.64	5.95			
2.97	61	18646.57	.14	3647.26	13796.97	1202.20	1198.40	3.80	3.67	0.00	11267.69	11270.53
3.00	93	35549.78	.14	3647.26	28094.52	3807.86	3799.87	7.99	6.31	0.00	28170.90	28169.55

108 2250 SEX.PLO 49 0 19.200 123 36 41.400

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.98	85	7383.23	.14	3647.26	0.00	3735.88	3729.24	6.64	5.94			
2.97	60	18650.65	.14	3647.26	13796.97	1206.28	1202.64	3.64	3.63	0.00	11267.37	11270.37
3.01	93	35553.72	.14	3647.26	28094.52	3811.80	3803.79	8.01	6.36	0.00	28170.44	28169.07

108 2252 SEX.PLO 49 0 37.200 123 36 56.400

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.98	85	7385.46	.14	3647.26	0.00	3738.06	3731.34	6.72	5.92			
2.96	59	18652.67	.14	3647.26	13796.97	1208.30	1204.54	3.76	3.60	0.00	11267.21	11270.17
3.00	93	35555.66	.14	3647.26	28094.52	3813.74	3805.73	8.01	6.35	0.00	28170.20	28168.91

108 2258 SEX.PLO 49 1 28.500 123 37 55.000

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.97	85	7391.93	.15	3647.26	0.00	3744.52	3737.72	6.80	6.02			
2.99	60	18658.92	.15	3647.26	13796.97	1214.54	1210.84	3.70	3.63	0.00	11266.99	11270.09
3.02	93	35561.40	.15	3647.26	28094.52	3819.47	3811.33	8.14	6.38	0.00	28169.47	28168.13

108 23 4 SEXTANT 49 2 21.000 123 38 52.000

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.96	85	7398.37	.15	3647.26	0.00	3750.96	3744.18	6.78	6.00			
2.96	60	18665.23	.15	3647.26	13796.97	1220.90	1217.13	3.77	3.41	0.00	11266.91	11269.92
3.01	93	35566.92	.15	3647.26	28094.52	3824.99	3817.07	7.92	6.44	0.00	28168.55	28167.41

108 2310 SEX.PLO 49 3 13.200 123 39 54.000

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.96	86	7404.50	.15	3647.26	0.00	3757.09	3750.74	6.35	5.98			
3.00	60	18671.82	.15	3647.26	13796.97	1227.44	1223.69	3.75	3.23	0.00	11267.32	11269.92
3.02	93	35572.14	.15	3647.26	28094.52	3830.21	3822.80	7.41	6.53	0.00	28167.64	28166.58

108 2314 SEX.PLO 49 3 49.200 123 40 17.400

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.97	86	7409.03	.15	3647.26	0.00	3761.62	3754.78	6.84	5.95			
3.00	61	18675.40	.15	3647.26	13796.97	1231.02	1227.14	3.88	3.17	0.00	11266.37	11269.33
3.03	93	35576.29	.15	3647.26	28094.52	3834.36	3826.64	7.72	6.44	0.00	28167.26	28166.38

108 2318 SEX.PLO 49 4 34.200 123 40 32.400

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.96	86	7413.39	.15	3647.26	0.00	3765.98	3759.47	6.51	5.94			
2.99	61	18678.53	.15	3647.26	13796.97	1234.21	1230.68	3.53	3.10	0.00	11265.20	11268.18
3.04	94	35580.76	.15	3647.26	28094.52	3838.83	3831.36	7.47	6.41	0.00	28167.37	28166.41

108 2320 SEX.PLO 49 4 52.800 123 40 54.000

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.99	86	7415.62	.15	3647.26	0.00	3768.21	3761.79	6.42	5.93			
2.98	61	18680.54	.15	3647.26	13796.97	1236.16	1232.99	3.17	3.10	0.00	11264.92	11268.17
3.04	94	35582.82	.15	3647.26	28094.52	3840.89	3833.40	7.49	6.41	0.00	28167.20	28166.13

108 2322 SEX.PLO 49 5 5.400 123 41 15.000

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.00	86	7417.76	.15	3647.26	0.00	3770.35	3763.53	6.82	5.93			
3.00	61	18682.80	.15	3647.26	13796.97	1238.42	1234.91	3.51	3.09	0.00	11265.04	11268.35
3.03	95	35584.68	.15	3647.26	28094.52	3842.75	3834.82	7.93	6.39	0.00	28166.92	28165.81

108 2324 SEX.PLO 49 5 21.000 123 41 35.400

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.00	86	7419.83	.15	3647.26	0.00	3772.48	3765.53	6.95	5.92			
2.98	61	18685.03	.15	3647.26	13796.97	1240.65	1236.97	3.68	3.07	0.00	11265.14	11268.41
3.04	94	35586.48	.15	3647.26	28094.52	3844.55	3836.55	8.00	6.39	0.00	28166.59	28165.54

108 2340 SEX.PLO 49 5 20.400 123 44 54.600

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.07	88	7423.50	.15	3647.26	0.00	3776.09	3770.52	5.57	5.93			
2.89	60	18695.50	.15	3647.26	13796.97	1251.12	1247.89	3.23	3.23	0.00	11272.00	11274.34
3.03	96	35586.28	.15	3647.26	28094.52	3844.35	3837.75	6.60	6.42	0.00	28162.78	28161.75

108 2344 SEX.PLO — 49 5 55.200 123 45 19.200

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.10	87	7428.39	.15	3647.26	0.00	3780.98	3774.48	6.50	5.90			
2.97	61	18699.97	.15	3647.26	13796.97	1255.59	1251.33	4.26	3.16	0.00	11271.58	11273.82
3.04	96	35590.83	.15	3647.26	28094.52	3848.90	3841.48	7.42	6.46	0.00	28162.44	28161.52

108 2348 SEX.PLO — 49 6 27.600 123 46 12.600

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.11	86	7432.87	.15	3647.26	0.00	3785.46	3778.93	6.53	5.90			
2.96	60	18704.16	.15	3647.26	13796.97	1259.78	1256.22	3.56	3.15	0.00	11271.29	11274.26
3.04	96	35594.96	.15	3647.26	28094.52	3853.03	3845.16	7.87	6.71	0.00	28162.09	28160.75

108 2352 SEX.PLO — 49 7 0.000 123 46 58.800

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.12	86	7437.22	.15	3647.26	0.00	3789.81	3783.21	6.60	5.88			
2.96	61	18708.29	.15	3647.26	13796.97	1263.91	1260.71	3.20	3.13	0.00	11271.07	11274.47
3.05	95	35598.98	.15	3647.26	28094.52	3857.05	3848.79	8.26	6.70	0.00	28161.76	28160.10

109 1920 TRISPON — 49 25 18.805 123 45 10.609

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.16	84	7539.30	.26	3647.26	0.00	3891.78	3885.75	6.03	6.47			
2.98	61	18772.25	.26	3647.26	13796.97	1327.76	1324.37	3.39	3.03	0.00	11232.95	11235.59
3.00	95	35710.44	.26	3647.26	28094.52	3968.40	3960.92	7.48	6.18	0.00	28171.14	28169.69

109 1930 TRISPON — 49 24 27.991 123 42 32.189

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.12	84	7530.39	.26	3647.26	0.00	3882.87	3876.99	5.88	5.43			
2.96	62	18760.75	.26	3647.26	13796.97	1316.26	1312.83	3.43	3.11	0.00	11230.36	11232.81
3.02	94	35704.26	.26	3647.26	28094.52	3962.22	3954.73	7.49	6.13	0.00	28173.87	28172.26

109 1950 TRISPON 49 22 44.812 123 37 20.354

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.00	83	7513.03	.26	3647.26	0.00	3865.51	3859.50	6.01	5.58			
2.95	61	18738.05	.26	3647.26	13796.97	1293.56	1289.93	3.63	3.22	0.00	11225.02	11227.40
3.01	93	35692.08	.26	3647.26	28094.52	3950.04	3942.31	7.73	6.03	0.00	28179.05	28177.33

109 20 0 TRISPON 49 21 58.825 123 34 49.169

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.13	83	7504.72	.26	3647.26	0.00	3857.20	3851.44	5.76	5.50			
2.97	62	18727.01	.26	3647.26	13796.97	1282.52	1279.10	3.42	3.23	0.00	11222.29	11224.63
3.00	92	35686.27	.26	3647.26	28094.52	3944.23	3936.75	7.48	5.93	0.00	28181.55	28179.83

109 2010 TRISPON 49 21 13.279 123 32 18.373

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.09	83	7496.75	.26	3647.26	0.00	3849.23	3843.45	5.78	5.51			
2.99	61	18716.38	.26	3647.26	13796.97	1271.89	1268.33	3.56	3.33	0.00	11219.63	11221.85
3.06	92	35680.75	.26	3647.26	28094.52	3938.71	3931.26	7.45	5.99	0.00	28184.00	28182.33

109 2020 TRISPON 49 20 29.689 123 29 45.108

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.02	83	7488.88	.26	3647.26	0.00	3841.36	3835.60	5.76	5.39			
3.99	95	18706.83	.26	3647.26	13796.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00 T
2.96	91	35675.35	.26	3647.26	28094.52	3933.31	3926.00	7.31	5.92	0.00	28186.47	28184.92

109 2030 TRISPON 49 19 49.118 123 27 14.450

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.09	83	7481.33	.27	3647.26	0.00	3833.86	3828.13	5.73	5.18			
2.99	61	18695.24	.27	3647.26	13796.97	1250.74	1247.14	3.60	3.45	0.00	11213.85	11215.98
2.97	91	35670.31	.27	3647.26	28094.52	3928.26	3921.07	7.19	5.79	0.00	28188.92	28187.46

109 2040 TRISPON 49 19 6.482 123 24 42.129

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.09	84	7473.65	.27	3647.26	0.00	3826.12	3820.44	5.68	5.23			
2.99	61	18684.75	.27	3647.26	13796.97	1240.25	1236.52	3.73	3.50	0.00	11211.10	11213.05
2.92	90	35665.11	.27	3647.26	28094.52	3923.06	3915.97	7.09	5.73	0.00	28191.46	28190.05

109 2050 TRISPON 49 18 23.723 123 22 8.841

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.99	83	7465.84	.27	3647.26	0.00	3818.31	3812.74	5.57	5.24			
2.94	60	18674.10	.27	3647.26	13796.97	1229.60	1225.84	3.76	3.59	0.00	11208.26	11210.07
2.98	91	35660.09	.27	3647.26	28094.52	3918.04	3910.88	7.16	5.76	0.00	28194.25	28192.66

109 21 0 TRISPON 49 17 25.525 123 20 22.428

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.03	84	7458.10	.27	3647.26	0.00	3810.57	3804.65	5.92	5.25			
2.89	61	18664.28	.27	3647.26	13796.97	1219.78	1216.49	3.29	3.63	0.00	11206.18	11208.81
3.00	91	35654.29	.27	3647.26	28094.52	3912.24	3904.43	7.81	5.72	0.00	28196.19	28194.30

109 2110 TRISPON 49 15 43.311 123 20 46.361

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.01	83	7448.41	.27	3647.26	0.00	3800.88	3795.29	5.59	5.27			
2.96	61	18658.82	.27	3647.26	13796.97	1214.32	1210.76	3.56	3.53	0.00	11210.41	11212.44
2.94	91	35643.19	.27	3647.26	28094.52	3901.14	3894.01	7.13	5.72	0.00	28194.78	28193.24

109 2120 TRISPON 49 14 1.815 123 21 8.323

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.10	83	7439.11	.27	3647.26	0.00	3791.58	3785.97	5.61	5.24			
2.99	60	18653.09	.27	3647.26	13796.97	1208.59	1205.04	3.55	3.39	0.00	11213.98	11216.04
2.97	90	35632.76	.27	3647.26	28094.52	3890.71	3883.66	7.05	5.77	0.00	28193.65	28192.21

109 2130 TRISPON 49 12 19.979 123 21 30.155

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.10	83	7429.82	.27	3647.26	0.00	3782.29	3776.62	5.67	5.25			
3.00	60	18647.35	.27	3647.26	13796.97	1202.85	1199.36	3.49	3.27	0.00	11217.53	11213.71
2.97	90	35622.43	.27	3647.26	28094.52	3880.38	3873.27	7.11	5.83	0.00	28192.61	28191.17

109 2140 TRISPON 49 10 36.947 123 21 54.820

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.05	83	7420.44	.27	3647.26	0.00	3772.91	3767.23	5.68	5.47			
2.98	61	18641.71	.27	3647.26	13796.97	1197.21	1193.82	3.39	3.06	0.00	11221.27	11223.56
2.97	90	35611.96	.27	3647.26	28094.52	3869.91	3862.78	7.13	5.73	0.00	28191.52	28190.07

109 2150 TRISPON 49 8 58.167 123 22 15.882

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.11	82	7411.37	.27	3647.26	0.00	3763.84	3758.17	5.67	5.51			
2.98	60	18636.29	.27	3647.26	13796.97	1191.79	1188.44	3.35	2.97	0.00	11224.92	11227.24
3.05	90	35601.93	.27	3647.26	28094.52	3859.88	3852.71	7.17	5.78	0.00	28190.56	28189.06

109 22 0 10 + DR 49 7 22.052 123 22 39.228

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.04	82	7402.74	.27	3647.26	0.00	3755.21	3749.43	5.78	5.61			
2.96	60	18631.24	.27	3647.26	13796.97	1186.74	1183.42	3.32	2.85	0.00	11228.50	11230.96
2.98	90	35592.07	.27	3647.26	28094.52	3850.02	3842.92	7.10	5.82	0.00	28189.33	28188.01

109 2210 TRISPON 49 5 43.274 123 23 10.216

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.10	82	7393.95	.28	3647.26	0.00	3746.41	3740.61	5.80	5.59			
3.00	61	18626.53	.28	3647.26	13796.97	1182.02	1178.69	3.33	2.87	0.00	11232.58	11235.05
2.97	90	35582.31	.28	3647.26	28094.52	3840.25	3832.89	7.36	5.87	0.00	28188.36	28186.80

109 2220 TRISPON 49 3 58.954 123 23 45.268

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.12	83	7384.81	.28	3647.26	0.00	3737.27	3731.38	5.89	5.62			
2.96	61	18621.80	.28	3647.26	13796.97	1177.29	1173.92	3.37	2.91	0.00	11236.99	11239.51
2.95	90	35571.64	.28	3647.26	28094.52	3829.58	3822.32	7.26	5.92	0.00	28186.83	28185.46

109 2230 TRISPON 49 2 14.511 123 24 9.149

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.03	82	7375.28	.28	3647.26	0.00	3727.74	3721.87	5.87	5.68			
2.98	60	18616.50	.28	3647.26	13796.97	1171.99	1168.61	3.38	2.90	0.00	11241.22	11243.71
2.94	91	35561.12	.28	3647.26	28094.52	3819.06	3811.68	7.38	5.99	0.00	28185.84	28184.33

109 2240 TRISPON 49 0 28.261 123 24 33.880

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.09	82	7365.75	.28	3647.26	0.00	3718.21	3712.22	5.99	5.81			
3.03	61	18611.10	.28	3647.26	13796.97	1166.59	1163.33	3.26	2.87	0.00	11245.35	11248.08
2.93	91	35550.28	.28	3647.26	28094.52	3808.22	3800.87	7.35	6.07	0.00	28184.53	28183.17

109 2250 TRISPON 49 0 10.440 123 25 48.759

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.96	87	7364.70	.28	3647.26	0.00	3717.16	3712.31	4.85	5.81			
2.77	62	18613.17	.28	3647.26	13796.97	1168.66	1166.29	2.37	2.89	0.00	11248.47	11250.95
3.01	101	35547.72	.28	3647.26	28094.52	3805.66	3799.40	6.26	6.07	0.00	28183.02	28181.61

109 23 0 TRISPON 49 1 40.382 123 27 34.358

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.87	83	7377.25	.28	3647.26	0.00	3729.71	3723.54	6.17	5.57			
3.07	60	18625.44	.28	3647.26	13796.97	1180.93	1177.58	3.35	2.86	0.00	11248.19	11251.01
2.97	91	35558.71	.28	3647.26	28094.52	3816.65	3809.17	7.48	6.17	0.00	28181.46	28180.15

109 2310 TRISPON 49 3 13.670 123 29 18.035

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.96	83	7388.57	.28	3647.26	0.00	3741.03	3735.04	5.99	5.57			
2.99	61	18636.74	.28	3647.26	13796.97	1192.23	1188.98	3.25	2.84	0.00	11248.17	11250.91
3.00	91	35568.89	.28	3647.26	28094.52	3826.83	3819.29	7.54	6.25	0.00	28180.32	28178.77

109 2330 TRISPON 49 6 9.995 123 32 50.719

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.96	84	7410.70	.28	3647.26	0.00	3763.16	3757.20	5.96	5.56			
2.98	60	18659.13	.28	3647.26	13796.97	1214.62	1211.45	3.17	2.83	0.00	11248.43	11251.22
3.03	92	35588.27	.28	3647.26	28094.52	3846.21	3838.55	7.66	6.15	0.00	28177.57	28175.87

109 2350 TRISPON 49 9 28.401 123 32 18.372

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.08	83	7428.84	.28	3647.26	0.00	3781.30	3775.50	5.80	5.47			
3.02	61	18670.03	.28	3647.26	13796.97	1225.52	1222.22	3.30	2.88	0.00	11241.19	11243.69
3.00	90	35608.41	.28	3647.26	28094.52	3866.35	3858.78	7.57	6.06	0.00	28179.57	28177.80

110 0 0 TRISPON 49 11 14.714 123 31 13.851

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.97	82	7437.63	.29	3647.26	0.00	3790.08	3784.17	5.91	5.64			
2.93	60	18673.41	.29	3647.26	13796.97	1228.89	1225.59	3.30	2.82	0.00	11235.78	11238.39
2.77	93	35619.55	.29	3647.26	28094.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00 T

110 020 TRISPON 49 14 42.264 123 29 16.300

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.04	83	7454.75	.29	3647.26	0.00	3807.20	3801.37	5.83	5.58			
2.99	61	18680.85	.29	3647.26	13796.97	1236.33	1232.93	3.40	3.01	0.00	11226.10	11228.53
2.94	91	35639.62	.29	3647.26	28094.52	3897.55	3890.11	7.44	6.02	0.00	28184.87	28183.26

110 030 TRISPON 49 16 26.993 123 28 19.817

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.18	84	7463.33	.29	3647.26	0.00	3815.78	3810.14	5.64	5.52			
3.02	60	18684.85	.29	3647.26	13796.97	1240.33	1236.93	3.40	3.23	0.00	11221.52	11223.76
2.89	91	35649.92	.29	3647.26	28094.52	3907.85	3900.60	7.25	5.96	0.00	28186.59	28184.98

110 1830 TRISPON 49 20 25.503 123 34 58.450

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.80	127	32956.70	.39	29143.26	0.00	0.00	0.00	0.00	0.00			T
2.95	61	44216.89	.39	29143.26	13796.97	1276.27	1273.35	2.92	3.19	0.00	0.00	0.00
0.00	0	0.00	.39	29143.26	28094.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00

110 1910 TRISPON 49 23 33.538 123 44 21.044

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.39	127	32919.55	.39	29143.26	0.00	0.00	0.00	0.00	0.00			T
2.99	61	44258.81	.39	29143.26	13796.97	1318.19	1314.87	3.32	3.04	0.00	0.00	0.00
0.00	0	0.00	.39	29143.26	28094.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00

110 1930 TRISPON 49 21 48.285 123 47 33.190

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.77	127	32900.98	.39	29143.26	0.00	0.00	0.00	0.00	0.00			T
2.97	61	44261.82	.39	29143.26	13796.97	1321.20	1318.03	3.17	2.86	0.00	0.00	0.00
0.00	0	0.00	.39	29143.26	28094.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00

110 2040 TRISPON 49 17 .912 123 28 51.231

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.42	99	32945.13	.40	29143.26	0.00	0.00	0.00	0.00	0.00			T
2.98	60	44184.97	.40	29143.26	13796.97	1244.34	1240.81	3.53	3.25	0.00	0.00	0.00
0.00	0	0.00	.40	29143.26	28094.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00

110 21 0 TRISPON 49 15 50.816 123 23 45.544

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
1.20	104	32928.36	.40	29143.26	0.00	0.00	0.00	0.00	0.00				T
2.98	62	44164.83	.40	29143.26	13796.97	1224.20	1220.42	3.78	3.36	0.00	0.00	0.00	
0.00	0	0.00	.40	29143.26	28094.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

110 2110 TRISPON 49 16 1.748 123 21 34.378

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
3.08	94	32944.83	.40	29143.26	0.00	0.00	0.00	0.00	0.00				T
2.65	65	44157.23	.40	29143.26	13796.97	1216.60	1214.46	2.14	3.51	0.00	0.00	0.00	
0.00	0	0.00	.40	29143.26	28094.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

110 2136 TRISPON 49 20 11.596 123 19 9.414

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
5.00	89	32967.48	.41	29143.26	0.00	0.00	0.00	0.00	0.00				T
2.95	60	44168.68	.41	29143.26	13796.97	1228.04	1224.24	3.80	3.90	0.00	0.00	0.00	
0.00	0	0.00	.41	29143.26	28094.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

110 2140 TRISPON 49 20 53.945 123 18 56.691

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.	
3.15	94	32970.14	.41	29143.26	0.00	0.00	0.00	0.00	0.00				T
2.95	60	44170.96	.41	29143.26	13796.97	1230.32	1226.55	3.77	3.87	0.00	0.00	0.00	
0.00	0	0.00	.41	29143.26	28094.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

110 22 0 SEX.PLO 49 24 19.000 123 17 57.000

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.91	84	32991.53	.41	29143.26	0.00	3847.86	3841.47	6.39	6.06			
2.90	61	44182.66	.41	29143.26	13796.97	1242.02	1237.97	4.05	3.99	0.00	11191.13	11193.47
0.00	0	0.00	.41	29143.26	28094.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00

110 2220 PLOT 49 27 44.606 123 16 51.665

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.03	84	33010.00	.41	29143.26	0.00	3866.33	3859.99	6.34	5.94			
2.97	64	44194.92	.41	29143.26	13796.97	1254.28	1249.44	4.84	4.03	0.00	11184.92	11186.42
0.00	0	0.00	.41	29143.26	28094.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00

110 2230 SEXTANT 49 29 29.476 123 16 20.611

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.04	86	33019.74	.41	29143.26	0.00	3876.07	3869.51	6.56	6.00			
3.04	66	44201.07	.41	29143.26	13796.97	1260.43	1255.51	4.92	4.10	0.00	11181.33	11182.97
0.00	0	0.00	.41	29143.26	28094.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00

110 2240 PLOT 49 31 13.000 123 15 57.000

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.11	90	33029.15	.41	29143.26	0.00	3885.48	3879.06	6.42	6.34			
2.99	70	44207.98	.41	29143.26	13796.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0	0.00	.41	29143.26	28094.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00

110 2250 PLOT 49 33 1.000 123 15 26.000

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.97	87	33040.13	.41	29143.26	0.00	3896.46	3888.90	7.56	6.40			
3.13	71	44215.19	.41	29143.26	13796.97	1274.55	1268.33	6.22	4.24	0.00	11175.06	11176.40
0.00	0	0.00	.41	29143.26	28094.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00

110 23 0 PLOT 49 34 49.000 123 14 54.500

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
2.99	89	33050.60	.41	29143.26	0.00	3906.93	3898.74	8.19	6.42			
2.97	71	44221.09	.41	29143.26	13796.97	1280.45	1274.80	5.65	4.19	0.00	11170.49	11173.03
0.00	0	0.00	.41	29143.26	28094.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00

110 2320 SEX.PLO 49 38 32.000 123 13 49.000

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.13	91	33070.47	.42	29143.26	0.00	3926.79	3919.06	7.73	6.33			
3.03	72	44234.50	.42	29143.26	13796.97	1293.85	1288.37	5.48	4.17	0.00	11164.03	11166.28
0.00	0	0.00	.42	29143.26	28094.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00

110 2330 SEX.PLO 49 40 0.000 123 13 32.000

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.07	94	33080.58	.42	29143.26	0.00	3936.90	3927.28	9.62	6.41			
3.05	73	44241.57	.42	29143.26	13796.97	1300.92	1294.21	6.71	4.21	0.00	11160.99	11163.90
0.00	0	0.00	.42	29143.26	28094.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00

111 1810 TRISPON 49 17 29.407 123 19 53.624

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.07	83	32954.00	.52	29143.26	0.00	3810.22	3804.36	5.86	5.49			
2.94	59	44159.97	.52	29143.26	13796.97	1219.22	1215.30	3.92	3.73	0.00	11205.97	11207.91
0.00	0	0.00	.52	29143.26	28094.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00

111 1820 TRISPON 49 15 40.440 123 20 34.106

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.07	83	32944.07	.52	29143.26	0.00	3800.29	3794.73	5.56	5.47			
2.94	60	44154.16	.52	29143.26	13796.97	1213.41	1209.94	3.47	3.56	0.00	11210.09	11212.18
0.00	0	0.00	.52	29143.26	28094.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00

111 1830 TRISPON 49 13 48.870 123 21 8.748

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.07	83	32934.35	.52	29143.26	0.00	3790.57	3784.73	5.84	5.24			
3.00	61	44148.53	.52	29143.26	13796.97	1207.78	1204.20	3.58	3.39	0.00	11214.18	11216.44
0.00	0	0.00	.52	29143.26	28094.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00

111 1840 TRISPON 49 13 59.056 123 23 34.863

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.07	85	32938.51	.52	29143.26	0.00	3794.73	3789.13	5.60	5.24			
2.98	61	44156.40	.52	29143.26	13796.97	1215.65	1212.40	3.25	3.32	0.00	11217.89	11220.24
0.00	0	0.00	.52	29143.26	28094.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00

111 1850 TRISPON 49 14 32.405 123 26 21.494

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.06	82	32945.68	.53	29143.26	0.00	3801.89	3796.27	5.62	5.43			
2.98	60	44167.26	.53	29143.26	13796.97	1226.50	1223.21	3.29	3.20	0.00	11221.58	11223.91
0.00	0	0.00	.53	29143.26	28094.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00

111 1920 TRISPON 49 15 36.711 123 31 37.764

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.05	86	32957.68	.53	29143.26	0.00	3813.89	3810.00	3.89	5.52			
2.82	62	44186.93	.53	29143.26	13796.97	1246.17	1243.87	2.30	2.98	0.00	11229.25	11230.84
0.00	0	0.00	.53	29143.26	28094.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00

111 1940 TRISPON 49 13 24.771 123 35 4.666

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.03	83	32951.80	.53	29143.26	0.00	3808.01	3802.29	5.72	5.36			
2.96	61	44190.13	.53	29143.26	13796.97	1249.37	1246.15	3.22	2.82	0.00	11238.33	11240.83
0.00	0	0.00	.53	29143.26	28094.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00

111 1950 TRISPON 49 11 53.679 123 36 27.827

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.03	83	32945.39	.53	29143.26	0.00	3801.60	3795.57	6.03	5.44			
2.94	60	44188.86	.53	29143.26	13796.97	1248.10	1244.73	3.37	2.83	0.00	11243.47	11246.13
0.00	0	0.00	.53	29143.26	28094.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00

111 20 0 TRISPON 49 10 22.841 123 37 52.460

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.04	85	32938.69	.53	29143.26	0.00	3794.90	3788.92	5.98	5.45			
2.95	61	44187.38	.53	29143.26	13796.97	1246.62	1243.51	3.11	2.82	0.00	11248.69	11251.56
0.00	0	0.00	.53	29143.26	28094.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00

111 2010 TRISPON 49 9 39.622 123 35 39.741

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.03	84	32931.37	.53	29143.26	0.00	3787.58	3781.50	6.08	5.44			
2.98	61	44177.75	.53	29143.26	13796.97	1236.99	1233.68	3.31	2.83	0.00	11246.38	11249.15
0.00	0	0.00	.53	29143.26	28094.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00

111 2030 TRISPON 49 7 53.034 123 30 56.604

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.03	82	32914.15	.53	29143.26	0.00	3770.36	3764.34	6.02	5.51			
2.95	61	44155.97	.53	29143.26	13796.97	1215.21	1211.81	3.40	2.87	0.00	11241.82	11244.44
0.00	0	0.00	.53	29143.26	28094.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00

111 2040 TRISPON 49 6 51.200 123 28 48.277

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.03	82	32905.06	.54	29143.26	0.00	3761.26	3755.27	5.99	5.72			
2.96	62	44145.21	.54	29143.26	13796.97	1204.44	1201.02	3.42	2.88	0.00	11240.15	11242.72
0.00	0	0.00	.54	29143.26	28094.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00

111 2050 TRISPON 49 6 7.291 123 26 22.833

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.02	82	32897.15	.54	29143.26	0.00	3753.35	3747.53	5.82	5.67			
2.95	60	44134.60	.54	29143.26	13796.97	1193.83	1190.48	3.35	2.93	0.00	11237.45	11239.92
0.00	0	0.00	.54	29143.26	28094.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00

111 21 0 TRISPON 49 5 10.794 123 24 24.955

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.02	82	32888.96	.54	29143.26	0.00	3745.16	3739.26	5.90	5.65			
2.98	60	44124.64	.54	29143.26	13796.97	1183.87	1180.60	3.27	2.92	0.00	11235.68	11238.31
0.00	0	0.00	.54	29143.26	28094.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00

111 2110 TRISPON 49 3 43.911 123 23 46.659

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.02	82	32879.47	.54	29143.26	0.00	3735.67	3729.96	5.71	5.67			
2.97	61	44117.49	.54	29143.26	13796.97	1176.72	1173.04	3.68	2.91	0.00	11238.02	11240.05
0.00	0	0.00	.54	29143.26	28094.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00

111 2120 TRISPON 49 2 22.845 123 22 3.365

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.01	81	32869.40	.54	29143.26	0.00	3725.60	3719.67	5.93	5.67			
2.96	60	44106.62	.54	29143.26	13796.97	1165.85	1162.38	3.47	2.90	0.00	11237.22	11239.68
0.00	0	0.00	.54	29143.26	28094.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00

111 2130 TRISPON 49 1 4.158 123 20 10.969

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.00	82	32859.16	.54	29143.26	0.00	3715.36	3709.40	5.96	5.67			
2.96	60	44095.67	.54	29143.26	13796.97	1154.90	1151.39	3.51	2.92	0.00	11236.51	11238.96
0.00	0	0.00	.54	29143.26	28094.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00

111 2140 TRISPON 49 2 17.523 123 18 14.141

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.01	82	32863.32	.54	29143.26	0.00	3719.52	3713.73	5.79	5.35			
2.99	61	44093.93	.54	29143.26	13796.97	1153.16	1149.80	3.36	2.93	0.00	11230.61	11233.04
0.00	0	0.00	.54	29143.26	28094.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00

111 2150 TRISPON 49 3 40.146 123 20 .511

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.01	82	32873.79	.54	29143.26	0.00	3729.99	3724.23	5.76	5.44			
2.95	61	44104.82	.54	29143.26	13796.97	1164.05	1160.74	3.31	2.91	0.00	11231.03	11233.48
0.00	0	0.00	.54	29143.26	28094.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00

111 22 0 TRISPON 49 5 13.450 123 21 4.332

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.02	82	32884.41	.54	29143.26	0.00	3740.61	3734.76	5.85	5.43			
3.01	60	44114.42	.54	29143.26	13796.97	1173.65	1170.11	3.54	2.88	0.00	11230.01	11232.32
0.00	0	0.00	.54	29143.26	28094.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00

111 2210 TRISPON 49 7 5.739 123 20 58.502

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.01	82	32895.03	.54	29143.26	0.00	3751.23	3745.48	5.75	5.31			
2.98	61	44121.25	.54	29143.26	13796.97	1180.48	1177.06	3.42	2.90	0.00	11226.22	11228.55
0.00	0	0.00	.54	29143.26	28094.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00

111 2230 TRISPON 49 11 .308 123 20 23.636

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.01	82	32916.88	.55	29143.26	0.00	3773.07	3767.35	5.72	5.15			
2.99	60	44134.93	.55	29143.26	13796.97	1194.15	1190.63	3.52	3.29	0.00	11218.05	11220.25
0.00	0	0.00	.55	29143.26	28094.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00

111 2240 TRISPON 49 12 51.915 123 19 27.839

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.02	83	32926.27	.55	29143.26	0.00	3782.46	3776.86	5.60	5.30			
2.97	61	44139.44	.55	29143.26	13796.97	1198.66	1195.19	3.47	3.43	0.00	11213.17	11215.30
0.00	0	0.00	.55	29143.26	28094.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00

111 2250 TRISPON 49 14 50.088 123 19 19.070

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.02	83	32937.67	.55	29143.26	0.00	3793.86	3788.12	5.74	5.42			
2.97	61	44147.28	.55	29143.26	13796.97	1206.50	1202.71	3.79	3.59	0.00	11209.61	11211.56
0.00	0	0.00	.55	29143.26	28094.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00

111 2310 TRISPON 49 18 25.737 123 19 38.642

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.04	84	32958.92	.55	29143.26	0.00	3815.11	3809.48	5.63	5.47			
2.93	60	44162.85	.55	29143.26	13796.97	1222.07	1218.41	3.66	3.73	0.00	11203.93	11205.90
0.00	0	0.00	.55	29143.26	28094.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00

111 2330 TRISPON 49 18 45.941 123 19 4.803

CYCLE	GAIN	OBS TOA	CLOCK RATE	CLOCK SYNCH	EMISSION DELAY	CORR TOA	CALC TOA	OBS ASF	CALC ASF	MON. CORR	OBS T.D.	CALC T.D.
3.17	80	32970.64	.55	29143.26	0.00	0.00	0.00	0.00	0.00			
2.94	59	44162.72	.55	29143.26	13796.97	1221.94	1218.10	3.84	3.83	0.00	0.00	0.00
0.00	0	0.00	.55	29143.26	28094.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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OCEANOGRAPHIC OBSERVATIONS AT OCEAN STATION P 6 January - 15 February 1978 Volume 88

by

Seakem Oceanography Ltd.

INSTITUTE OF OCEAN SCIENCES, PATRICIA BAY
Sidney, B.C.

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in accordance with accepted bibliographic custom.

ABSTRACT

Physical, chemical and biological oceanographic observations are made from the weathership at Ocean Weather Station Papa, and between Esquimalt and Station Papa, on a routine continuing basis. Physical oceanography data only are shown, including surface observations and profiles obtained with bottle casts and conductivity-temperature-pressure instruments.

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INTRODUCTION

Canadian operation of Ocean Weather Station P (Latitude 50°00'N, Longitude 145°00'W) was inaugurated in December, 1950. The station is occupied primarily to make meteorological observations of the surface and upper air and to provide an air-sea rescue service. The station is manned by two vessels operated by the Marine Services Branch of the Ministry of Transport. They are the CCGS Vancouver and the CCGS Quadra. Each ship remains on station for a period of six weeks, and is then relieved by the alternate ship, thus maintaining a continuous watch.

Bathythermograph observations have been made at Station P since July 1952. A program of more extensive oceanographic observations commenced in August 1956. This was extended in April 1959, by the addition of a series of oceanographic stations along the route to and from Station P and Swiftsure Bank. These stations are known as Line P stations. The number of stations on Line P has been increased twice and now consists of twelve stations (Fig. 1). Bathythermograph observations and surface salinity sample collections, in addition to being made on Line P oceanographic stations, are also made at odd meridians at 40', i.e. 139°40'W, 141°40'W, etc. These stations are known as Line P BT stations. Data observed prior to 1968 have been indexed by Collins et al (1969).

The present record includes hydrographic, continuously sampled STD and surface salinity and temperature data collected from the CCGS Quadra during the period 6 January to 15 February 1978.

All physical oceanographic data have been stored by the Canadian Oceanographic Data Centre (CODC), 615 Booth Street, Ottawa, Ontario, Canada. Requests for these data should be directed to CODC.

Biological and productivity data are published in the Manuscript Report series of the Fisheries Research Board of Canada (FRB), Pacific Biological Station, Nanaimo, British Columbia, Canada. Requests for these data should be directed to FRB.

Marine geochemical data are for the Ocean Chemistry Group, Ocean and Aquatic Sciences, Environment Canada, Institute of Ocean Sciences, P.O. Box 6000, Sidney, British Columbia, Canada, V8L 4B2.

PROGRAM OF OBSERVATION FROM CCGS QUADRA, 6 JANUARY - 15 FEBRUARY 1978 (P-78-1) (CODC Ref. No. 15-78-001)

Oceanographic observations were made by Mr. B. Canning of Seakem Oceanography Ltd., Sidney, B.C.

En Route to Station P

Line P Stations 1 to 4, 8 and 12 were occupied and an STD profile made to near bottom or 1500 metres. No hydrocasts were made. Rough weather cancelled work on Stations 5 to 7 and 9 to 11.

Samples for nitrates, nutrients, alkalinity and total CO_2 were collected at all whole stations from either a bucket or the seawater loop. Loop salinities were collected at whole and half stations 1 to 12½. Bucket salinity samples were collected at Stations 1 to 4. Surface bucket temperatures were taken at all whole and half stations.

A surface tarball tow was made at Stations 1, 3 and 12.

The thermosalinograph, surface temperature recorder and PCO_2 system were run continuously.

Mechanical BT's or XBT's were taken at all whole and half stations.

On Station P

The oceanographic program was carried out as follows:

Physical Oceanography:

1) Profiles for salinity, temperature and oxygen were obtained from 2 hydrocasts to 4200 metres.

2) Eighteen STD profiles to 300 metres and 12 profiles to 1500 metres were obtained.

3) BT's were taken every 3 hours to coincide with meteorological observations and encoded and transmitted according to the IGOSS format. XBT's were taken on days of rough weather.

4) Salinity samples were collected daily at 0000 hrs GMT from the seawater loop.

5) Twelve extra STD profiles were obtained to 300 metres from triangle grids set up by Cruise 15-77-006 as part of the MILE program.

Marine Geochemistry:

1) Nutrient and salinity samples were collected daily at 0000 hrs GMT from the seawater loop. A 24-hour series for nutrients was also completed, with a sample taken every hour. Two profiles for nutrients and one for

tritium to 500 metres were taken. One bucket sample and rainwater samples for tritium and rainwater samples for Pb^{210} were collected.

2) Alkalinity and total CO_2 samples were collected once a week from a bucket or the seawater loop. One profile to 500 metres was taken.

3) Air CO_2 samples were taken in quadruplicate on Sundays and in duplicate on Thursdays. A 5 litre sample was also collected on Sundays.

4) Five surface tarball tows were completed.

5) PCO_2 carboys were filled in duplicate every week.

6) Three samples each of seawater C-14, seawater C-13 and air C-13 (5-litre duplicate samples) were collected. A profile to 500 metres was completed for seawater C-14 using the hydrobios sampler.

7) One N.B.S. bottle sample and one stainless steel bucket sample were collected for trace hydrocarbons once a week.

Biological Oceanography:

Samples were obtained as follows:

1) Five 150 metre vertical plankton hauls.
Two 1200 metre vertical plankton hauls.
Two groups of subsurface plankton hauls were taken on 3 consecutive nights at sunset. Another group was started, but cancelled due to rough weather.

2) Four Secchi disc readings taken at local noon.

3) One profile to 200 metres for each of plant pigment and nitrate were obtained, as well as 3 surface samples each.

4) Two profiles to 500 metres and 3 surface samples for chlorophyll *a* were obtained.

En Route from Station P

Line P Stations 10, 9 and 6 to 1 were occupied and an STD profile made to near bottom. No hydrocasts were made. Rough weather cancelled all other scheduled STD's.

Samples for nutrients, nitrates, alkalinity and total CO_2 were collected at all whole stations from the seawater loop. Loop salinity samples were collected at all whole stations. Bucket salinity samples were collected at Stations 5 to 1. Surface bucket temperatures were taken at all whole and half stations.

A surface tarball tow was made at Station 10, but the tarball net was lost.

The surface temperature recorder, thermosalinograph and PCO_2 system were run continuously.

Mechanical BT's or XBT's were taken at all whole and half stations.

Observations for Other Agencies

1) Marine mammal observations were made by the ship's officers for Mr. I. McAskie, Fisheries Research Board of Canada, Pacific Biological Station, Nanaimo, British Columbia, Canada.

2) Bird observations were made by the ship's officers for Dr. M. Myres, University of Alberta, Calgary, Alberta, Canada and Mr. J. Guiguet, Curator of Birds and Mammals, Provincial Museum, Department of Provincial Secretary and Travel Industry, Victoria, British Columbia, Canada.

3) Air CO_2 samples were taken weekly in duplicate for Scripps Institute of Oceanography, La Jolla, California, U.S.A.

Data were processed for publication by Ms. M. Sainsbury of Seakem Oceanography Ltd., Sidney, B.C.

OBSERVATIONAL PROCEDURES

Observations for salinity, oxygen and temperature from all hydrographic casts, including the surface, were obtained with Niskin water sample bottles equipped with either Richter and Wiese and/or Yoshino Keiki Co. reversing thermometers. Two protected thermometers were used on all bottles and one unprotected thermometer was used on each bottle at depths of 300 m or greater. The accuracy of protected reversing thermometers is believed to be ± 0.02°C.

The daily surface water temperatures were measured from a bucket sample using a deck thermometer of ±0.1°C accuracy. The daily surface salinity samples were obtained from the seawater loop. When the seawater loop was not operational these samples were obtained with a bucket, and are indicated with a 'b' in this data record.

Salinity determinations were made aboard ship with either an Autolab Model 601 Mark III inductive salinometer or a Hytech Model 6220 lab salinometer. Accuracy using duplicate determinations is estimated to be ±0.003 °/oo.

Depth determinations were made using the "depth difference" method described in the U.S.N. Hydrographic Office Publication No. 607 (1955). Depth estimates have an approximate accuracy of ±5 m for depths less than 1000 m, and ±0.5% of depth for depths greater than 1000 m.

The dissolved oxygen analyses were done in shipboard laboratory by a modified Winkler method (Carpenter, 1955).

Line P engine intake continuous temperature on both ships was recorded by a Honeywell Electronik 15 Recorder. The temperature probe is at a depth of approximately 3 metres below the sea surface and the instrument accuracy is believed to be ±0.1°C.

Each ship is equipped with a Plessey Model 6600-T thermosalinograph which is used, on Line P, for continuous recording of surface temperatures and salinities from the ship's seawater loop. The temperature probe is mounted at the seawater loop intake (approximately 3 metres below the surface) and the

salinity probe and recorder are situated in the dry lab. The accuracy of this instrument is believed to be $\pm 0.1^{o}C$ for temperature and $\pm 0.1\ ^{o}/oo$ for salinity.

STD profiles were taken with a Plessey Model 9006 STD system.

COMPUTATIONS

All hydrographic data were processed with the aid of an IBM 370 computer and a UNIVAC 1100 computer. Reversing thermometer temperature corrections, thermometric depth calculations and accepted depth from the "depth difference" method were computed. Extraneous thermometric depths caused by thermometer malfunctions were automatically edited and replaced. A Calcomp 565 Offline Plotter was used to plot temperature-salinity and temperature-oxygen diagrams, as well as plots of temperature, salinity and dissolved oxygen vs $\log_{10}$ depth. These plots were used to check the data for errors.

Missing hydrographic data were obtained using a weighted parabolas interpolation method (Reiniger and Ross, 1968). These data are indicated with an asterisk in this data record.

Data values which we suspect but which we have included in this data record are indicated with a plus. These data have been removed from punch card and magnetic tape records.

Analog records from the salinity-temperature-pressure instrument have been machine digitized, then replotted using the Calcomp plotter.

Digitization was continued until original and computer plotted traces were coincident. Temperature and salinity values were listed at standard pressure; integrals (depths, geopotential anomaly, and potential energy anomaly) were computed from the entire array of digitized data.

The headings for the data listings are explained as follows:

PRESS	is pressure (decibars)
TEMP	is temperature (degrees Celsius)
SAL	is salinity (parts per thousand)
DEPTH	is reported in metres
SIGMA-T	is specific gravity anomaly
SVA	is specific volume anomaly
THETA	is potential temperature (degrees Celsius)
SVA (THETA)	is potential specific volume anomaly
DELTA D	is geopotential anomaly (J/kg)
POT EN	is potential energy in units of 10^{8} ergs/cm^{2}
OXY	is the concentration of dissolved oxygen expressed in millilitres per litre
SOUND	is the velocity of sound in m/sec

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MacNeill, M., 1977. A study of anomalous salinity and oxygen values in the deep water at Ocean Station P from 1960-1976 (unpublished manuscript). Pacific Marine Science Report 77-9.

Reiniger, R.F. and C.K. Ross, 1968. A method of interpolation with application to oceanographic data. Deep Sea Res. 15 , 185-193.

U.S.N. Hydrographic Office, 1955. Instruction Manual for oceanographic observations. Publ. No. 607.

LOG OF HYDROGRAPHIC AND STD OBSERVATIONS

Consec #	Positions	Date (Z)	Time (Z)	STD (m)	Hydrocasts (m)	Comments
1	125-33°W	06/01/78	2325	80		
2	126-00°W	07/01/78	0115	80		
3	126-40°W	07/01/78	0310	1,200		
4	127-40°W	07/01/78	0650	1,500		
5	134-40°W	08/01/78	0205	700		winch malfunction
6	142-40°W	09/01/78	0105	1,500		
7	P	09/01/78	1715	1,500		
8	P	09/01/78	1830		600	T, S, O_2
9	P	10/01/78	1715	1,500		
10	P	10/01/78	1910		4,200	T, S, O_2 Alk.
11	P	11/01/78	1715	300		
12	P	13/01/78	1715	1,500		
13	P	14/01/78	1715	300		
14	P	15/01/78	1710	300		
15	P	16/01/78	1715	1,500		
16	P	17/01/78	1715	300		
17	P	18/01/78	1720	300		
18	P	19/01/78	1710	300		
19	P	20/01/78	1715	1,500		
20	P	21/01/78	1715	300		
21	P	22/01/78	1720	300		
22	P	24/01/78	1715	1,500		
23	P	25/01/78	1715	300		
24	P	26/01/78	1715	300		
25	P	27/01/78	1715	1,500		
26	P	28/01/78	1715	300		
27	E3	28/01/78	1950	300		MILE grid
28	E4	28/01/78	2125	300		
29	C1	28/01/78	2250	300		
30	W4	29/01/78	0115	300		
31	W3	29/01/78	0240	300		
32	P	29/01/78	0405	300		
33	P	29/01/78	1715	300		
34	P	30/01/78	1715	1,500		
35	P	30/01/78	1830		600	T, S, O_2
36	P	31/01/78	1710	1,500		
37	P	31/01/78	1900		4,200	T, S, O_2 Alk.
38	P	01/02/78	1710	300		
39	P	02/02/78	1710	300		
40	P	03/02/78	1710	1,500		
41	P	04/02/78	1710	300		
42	P	05/02/78	1710	300		
43	P	06/02/78	1710	1,500		
44	E3	06/02/78	1920	300		MILE grid
45	E4	06/02/78	2050	300		
46	C1	06/02/78	2210	300		

LOG OF HYDROGRAPHIC AND STD OBSERVATIONS (Continued)

Consec #	Position	Date (Z)	Time (Z)	STD (m)	Hydrocasts (m)	Comments
47	W4	06/02/78	2345	300		
48	W3	07/02/78	0110	300		
49	P	07/02/78	0225	300		
50	P	10/02/78	1805	1,500		
51	P	11/02/78	1705	300		
52	P	12/02/78	1710	300		
53	138-40°W	13/02/78	1520	1,500		
54	136-40°W	13/02/78	2150	1,500		
55	130-40°W	14/02/78	1555	1,500		
56	128-40°W	14/02/78	2350	1,500		
57	127-40°W	15/02/78	0345	1,500		
58	126-40°W	15/02/78	0730	1,150		
59	126-00°W	15/02/78	1035	80		
60	125-33°W	15/02/78	1235	90		

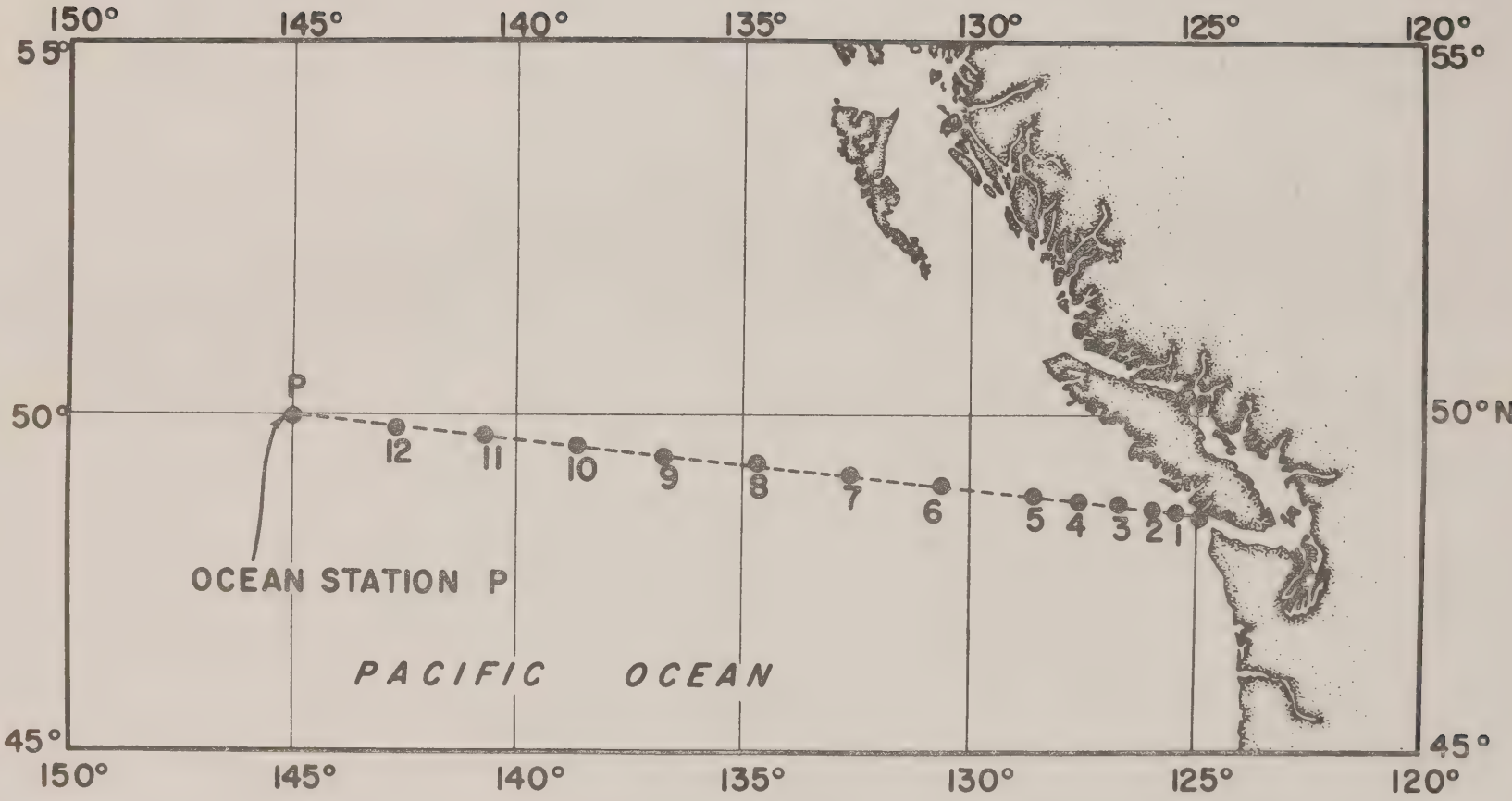


Fig. 1 Chart showing Line P station positions.

Oceanographic Data Obtained on Cruise P-78-1

(CODC Reference No. 15-78-001)

Results of Hydrographic Observations

(P-78-1)

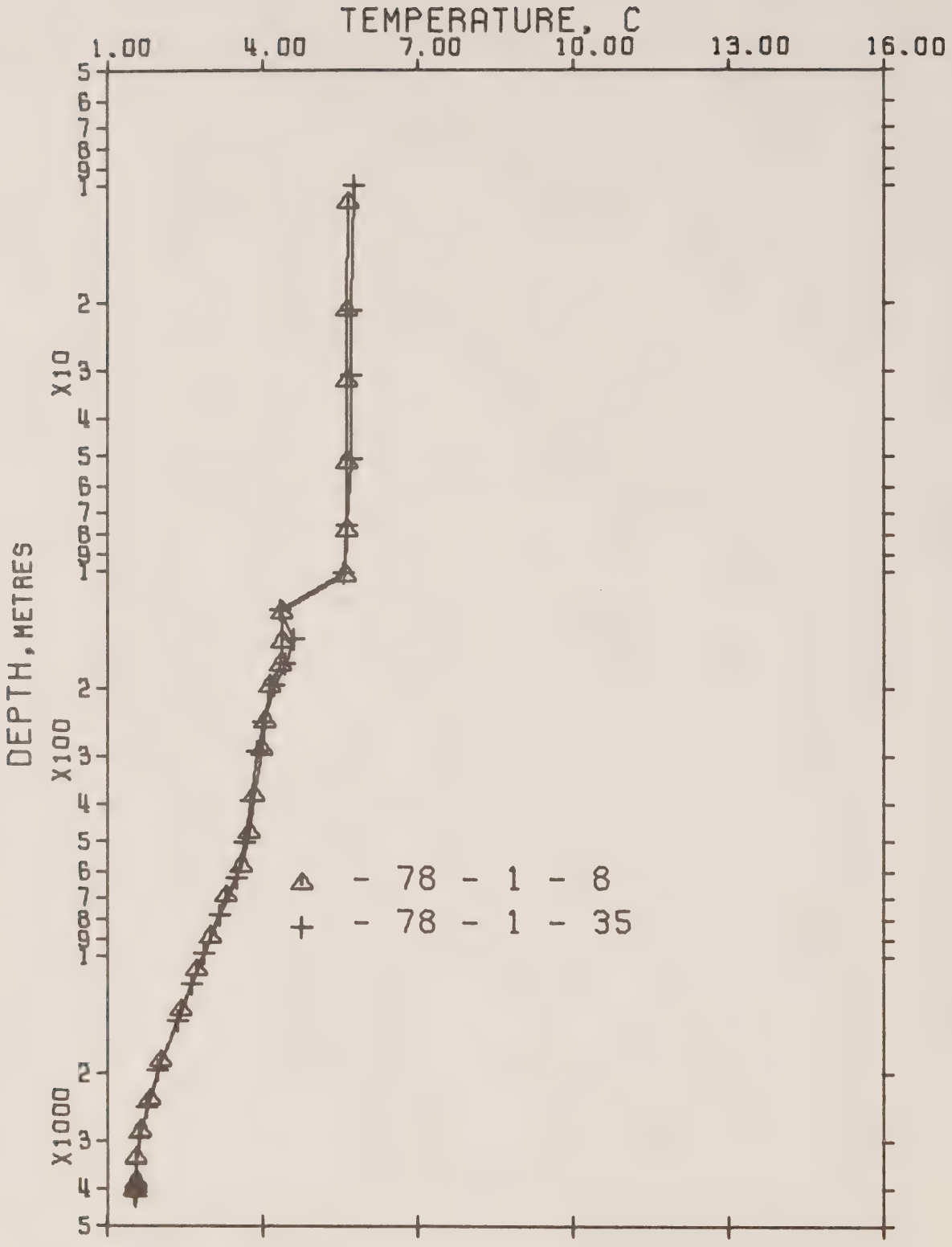


Figure 2. Composite plot of temperature vs $\log_{10}$ depth for Station P.

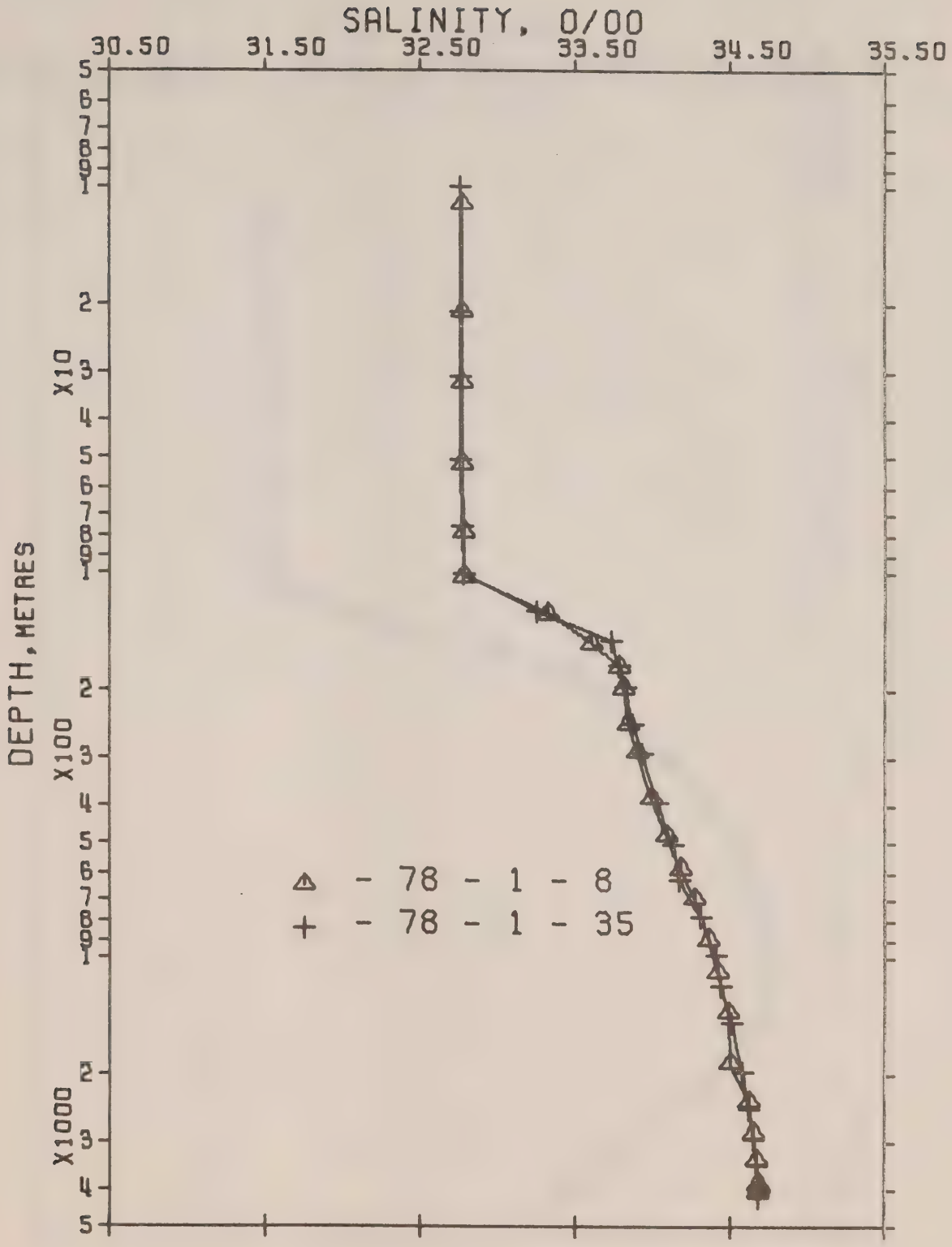


Figure 3. Composite plot of salinity vs $\log_{10}$ depth for Station P.

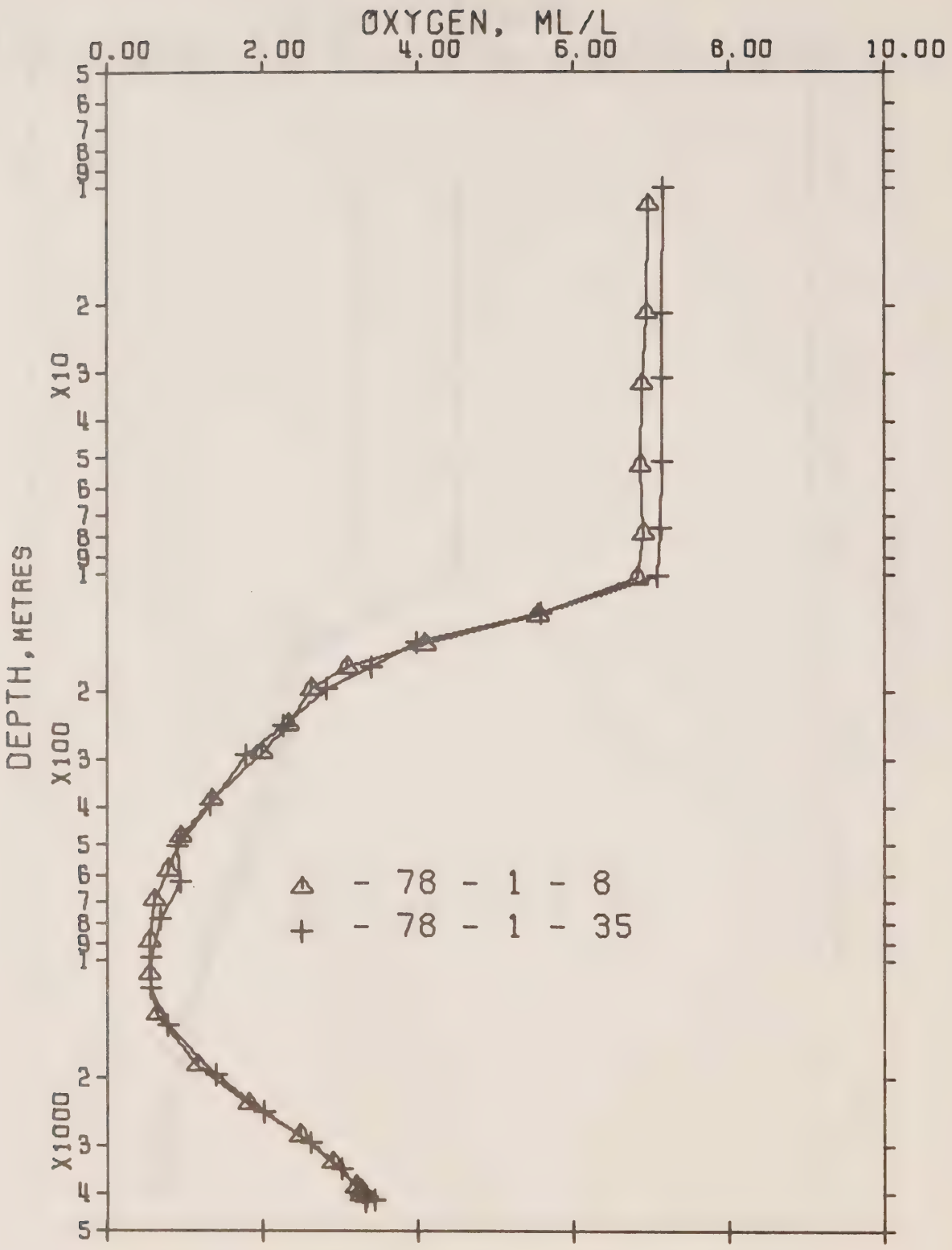
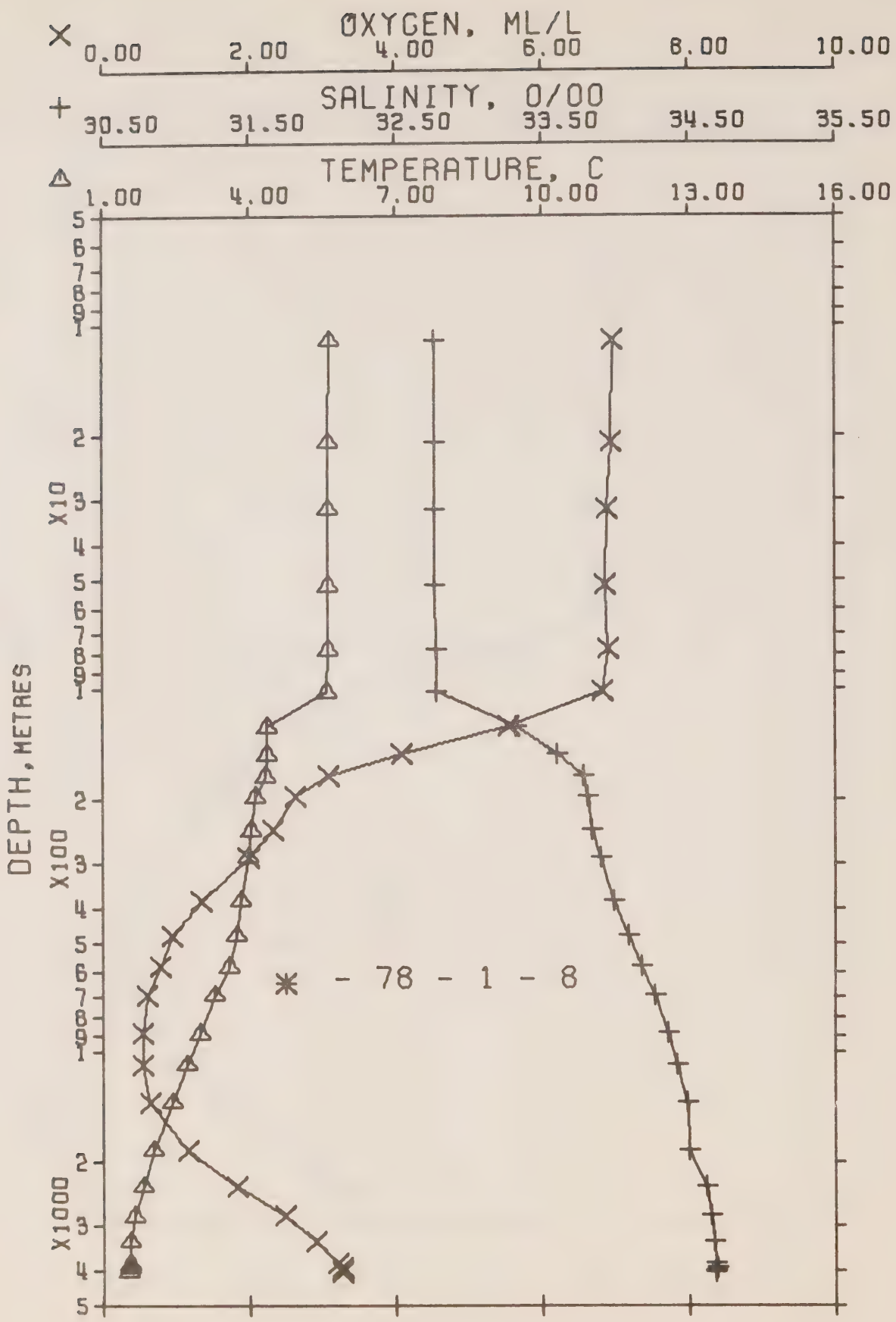


Figure 4. Composite plot of oxygen vs $\log_{10}$ depth for Station P.

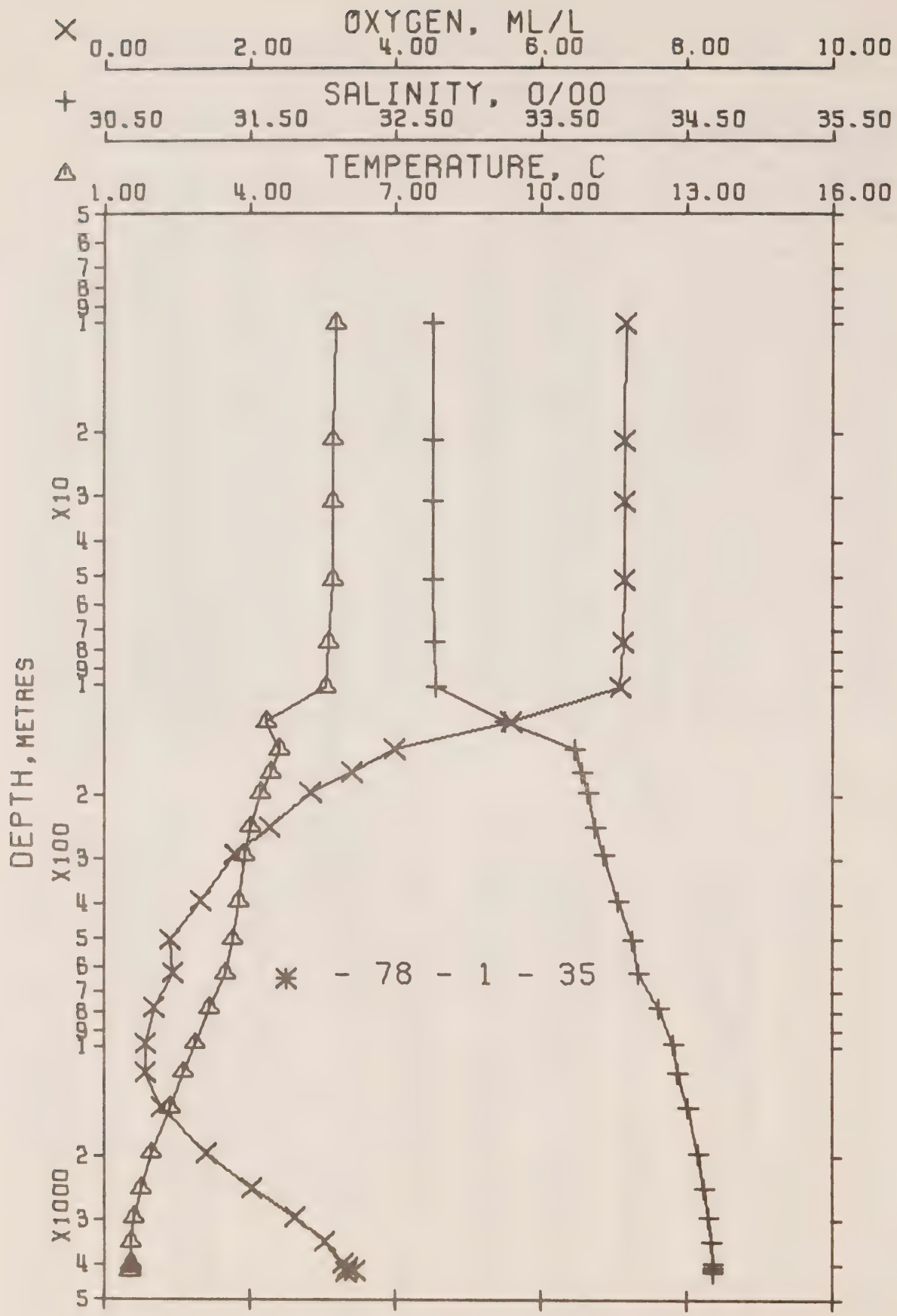

OXYGEN, ML/L
0.00
2.00
4.00
6.00
8.00
10.00
SALINITY, O/OO
30.50
31.50
32.50
33.50
34.50
35.50
TEMPERATURE, C
1.00
4.00
7.00
10.00
13.00
16.00
DEPTH, METRES
X10
X100
X1000
* - 78 - 1 - 8

OFFSHORE OCEANOGRAPHY GROUP
REFERENCE NO. 78- 1- 8 DATE 9/ 1/78 GMT 18.7
POSITION 50- .0 N, 145- .0 W STATION P
OBSERVED DATA

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	THETA	SVA (THETA)	DELTA D	POT. EN	OXY	SOUND
0	5.68	32.778	0	25.862	214.7	5.68	214.7	.00	.00	7.15	1471.
11	5.66	32.773	11	25.860	215.0	5.66	214.9	.24	.01	6.95	1471.
21	5.62	32.772	21	25.864	214.7	5.62	214.5	.45	.05	6.93	1471.
32	5.62	32.772	32	25.864	214.8	5.62	214.5	.69	.11	6.88	1471.
52	5.62	32.771	52	25.863	215.1	5.62	214.5	1.12	.30	6.85	1471.
79	5.62	32.777	78	25.868	215.0	5.61	214.1	1.69	.68	6.89	1472.
103	5.60	32.779	102	25.872	214.8	5.59	213.7	2.21	1.16	6.82	1472.
128	4.35	33.319	127	26.438	161.1	4.34	159.9	2.68	1.71	5.53	1468.
152	4.35	33.597	151	26.658	140.4	4.34	139.0	3.04	2.22	4.08	1469.
175	4.34	33.782	174	26.806	126.7	4.33	125.0	3.35	2.74	3.08	1470.
199	4.13	33.814	198	26.853	122.3	4.12	120.5	3.65	3.31	2.63	1469.
246	4.02	33.839	244	26.884	119.7	4.00	117.5	4.21	4.58	2.32	1469.
292	3.98	33.897	290	26.934	115.3	3.96	112.7	4.75	6.07	1.99	1470.
385	3.82	33.994	382	27.028	107.2	3.79	103.8	5.78	9.63	1.33	1471.
481	3.73	34.092	477	27.114	99.7	3.70	95.5	6.78	14.00	.94	1472.
585	3.59	34.182	580	27.200	92.3	3.55	87.4	7.77	19.42	.77	1474.
701	3.27	34.269	695	27.300	83.2	3.22	77.9	8.79	26.09	.59	1474.
897	2.97	34.356	889	27.396	74.9	2.91	68.6	10.34	38.66	.54	1476.
1094	2.71	34.416	1083	27.467	68.8	2.64	61.8	11.75	52.95	.53	1479.
1389	2.40	34.491	1374	27.554	61.4	2.31	53.5	13.66	77.08	.63	1482.
1882	2.01	34.498	1860	27.591	58.5	1.88	49.7	16.64	126.83	1.17	1489.
2378	1.80	34.618	2347	27.703	49.1	1.63	38.8	19.28	183.99	1.82	1496.
2878	1.64	34.649	2837	27.740	46.3	1.43	35.1	21.66	247.66	2.48	1504.
3383	1.53	34.669	3331	27.764	44.8	1.27	32.5	23.95	320.73	2.91	1512.
3894	1.55	34.679	3830	27.771	45.7	1.24	31.5	26.27	407.06	3.21	1521.
3997	1.53	34.689	3930	27.780	44.9	1.21	30.6	26.74	425.71	3.26	1523.
4089	1.52	34.683	4020	27.776	45.4	1.19	30.9	27.15	442.79	3.27	1524.
4099	1.52	34.678	4030	27.772	45.8	1.19	31.3	27.20	444.75	3.27	1524.

INTERPOLATED TO STANDARD PRESSURE

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	THETA	SVA (THETA)	DELTA D	POT. EN	OXY	SOUND
0	5.68	32.778	0	25.862	214.7	5.68	214.7	.00	.00	7.15	1471.
10	5.66	32.773	10	25.860	215.0	5.66	214.9	.21	.01	6.96	1471.
20	5.62	32.772	20	25.864	214.8	5.62	214.5	.43	.04	6.93	1471.
30	5.62	32.772	30	25.864	214.8	5.62	214.5	.64	.10	6.89	1471.
50	5.62	32.771	50	25.863	215.1	5.62	214.5	1.07	.27	6.85	1471.
75	5.62	32.776	75	25.867	215.0	5.61	214.1	1.61	.62	6.89	1472.
100	5.60	32.779	99	25.871	214.8	5.59	213.7	2.15	1.10	6.83	1472.
125	4.48	33.263	124	26.380	166.5	4.47	165.4	2.63	1.65	5.67	1469.
150	4.35	33.575	149	26.641	142.0	4.34	140.6	3.01	2.18	4.19	1469.
175	4.34	33.782	174	26.806	126.7	4.33	125.0	3.35	2.74	3.08	1470.
200	4.13	33.814	199	26.854	122.3	4.11	120.4	3.65	3.32	2.62	1469.
225	4.07	33.828	223	26.871	120.8	4.05	118.7	3.96	3.98	2.45	1469.
250	4.02	33.845	248	26.889	119.3	4.00	117.0	4.26	4.71	2.29	1469.
300	3.96	33.906	298	26.943	114.5	3.94	111.8	4.84	6.34	1.92	1470.
400	3.80	34.011	397	27.042	105.9	3.78	102.4	5.94	10.27	1.27	1471.
500	3.70	34.110	496	27.131	98.2	3.67	93.9	6.96	14.94	.91	1473.
600	3.55	34.194	595	27.214	91.0	3.50	86.0	7.91	20.25	.75	1474.
700	3.27	34.268	694	27.299	83.3	3.22	77.9	8.78	26.02	.60	1474.
800	3.11	34.315	793	27.351	78.8	3.06	72.9	9.59	32.19	.57	1475.
900	2.97	34.357	891	27.398	74.8	2.91	68.5	10.36	38.83	.54	1476.
1000	2.83	34.389	990	27.435	71.6	2.76	64.8	11.09	45.92	.54	1477.
1200	2.59	34.445	1188	27.501	65.9	2.51	58.5	12.46	61.30	.57	1480.
1500	2.30	34.493	1484	27.563	60.7	2.20	52.5	14.33	87.06	.77	1484.
2000	1.96	34.529	1976	27.620	56.1	1.82	46.9	17.31	140.16	1.34	1490.
2500	1.76	34.626	2467	27.713	48.3	1.58	37.9	19.87	198.74	2.00	1498.
3000	1.61	34.654	2956	27.746	45.9	1.39	34.4	22.22	264.51	2.59	1506.
3500	1.53	34.671	3445	27.766	45.0	1.26	32.3	24.47	339.14	2.98	1514.
4000	1.53	34.689	3933	27.780	45.0	1.21	30.6	26.75	426.29	3.26	1523.


OXYGEN, ML/L
0.00
2.00
4.00
6.00
8.00
10.00
SALINITY, O/OO
30.50
31.50
32.50
33.50
34.50
35.50
TEMPERATURE, C
1.00
4.00
7.00
10.00
13.00
16.00
DEPTH, METRES
X10
X100
X1000
* - 78 - 1 - 35

OFFSHORE OCEANOGRAPHY GROUP
REFERENCE NO. 78- 1- 35 DATE 30/ 1/78 GMT 18.7
POSITION 50- .0 N, 145- .0 W STATION P
OBSERVED DATA

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	THETA	SVA (THETA)	DELTA D	POT. EN	OXY	SOUND
0	5.76	32.757	0	25.835	217.2	5.76	217.2	.00	.00	7.19	1471.
10	5.76	32.757	10	25.835	217.3	5.76	217.2	.22	.01	7.16	1471.
21	5.72	32.761	21	25.843	216.7	5.72	216.4	.46	.05	7.14	1471.
31	5.72	32.759	31	25.842	216.9	5.72	216.6	.68	.11	7.13	1471.
51	5.72	32.759	51	25.842	217.2	5.72	216.6	1.11	.29	7.14	1472.
76	5.63	32.772	76	25.863	215.4	5.62	214.5	1.66	.65	7.12	1472.
102	5.56	32.784	101	25.880	214.0	5.55	212.8	2.20	1.14	7.09	1472.
127	4.34	33.253	126	26.387	165.9	4.33	164.8	2.68	1.69	5.59	1468.
151	4.60	33.731	150	26.738	133.0	4.59	131.4	3.04	2.20	3.98	1470.
175	4.41	33.780	174	26.797	127.6	4.40	125.8	3.35	2.71	3.39	1470.
199	4.21	33.822	198	26.851	122.5	4.20	120.6	3.65	3.29	2.81	1469.
248	3.99	33.872	246	26.914	116.9	3.97	114.7	4.23	4.61	2.26	1469.
296	3.87	33.934	294	26.975	111.5	3.85	108.9	4.78	6.14	1.78	1470.
398	3.76	34.033	395	27.065	103.7	3.73	100.3	5.88	10.02	1.31	1471.
508	3.64	34.129	504	27.153	96.2	3.60	91.9	6.97	15.09	.91	1472.
630	3.49	34.173	625	27.202	92.2	3.45	87.1	8.12	21.75	.95	1474.
787	3.16	34.307	780	27.340	79.8	3.11	74.0	9.47	31.45	.69	1475.
987	2.86	34.411	977	27.450	70.2	2.79	63.4	10.96	44.89	.55	1477.
1187	2.61	34.442	1175	27.497	66.3	2.53	58.9	12.33	60.06	.57	1480.
1487	2.34	34.511	1471	27.575	59.7	2.24	51.4	14.21	85.74	.78	1484.
1989	1.96	34.584	1965	27.664	52.1	1.82	42.8	17.02	135.30	1.41	1490.
2495	1.75	34.624	2462	27.712	48.4	1.57	38.0	19.55	193.15	2.02	1498.
3006	1.59	34.650	2962	27.745	45.9	1.37	34.6	21.95	260.52	2.62	1506.
3521	1.54	34.670	3466	27.764	45.2	1.27	32.4	24.29	338.38	3.02	1515.
4044	1.55	34.677	3976	27.769	46.2	1.22	31.6	26.67	430.21	3.29	1524.
4150	1.53	34.681	4079	27.774	45.9	1.19	31.1	27.16	450.55	3.33	1525.
4245	1.52	34.682	4172	27.775	45.9	1.17	30.9	27.60	469.28	3.44	1527.
4256	1.53	34.681	4182	27.774	46.2	1.18	31.0	27.64	471.32	3.32+	1527.

INTERPOLATED TO STANDARD PRESSURE

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	THETA	SVA (THETA)	DELTA D	POT. EN	OXY	SOUND
0	5.76	32.757	0	25.835	217.2	5.76	217.2	.00	.00	7.19	1471.
10	5.76	32.757	10	25.835	217.3	5.76	217.2	.22	.01	7.16	1471.
20	5.72	32.761	20	25.843	216.7	5.72	216.5	.43	.04	7.14	1471.
30	5.72	32.759	30	25.842	216.9	5.72	216.6	.65	.10	7.14	1471.
50	5.72	32.759	50	25.842	217.1	5.72	216.6	1.09	.28	7.14	1472.
75	5.63	32.771	75	25.862	215.5	5.63	214.7	1.63	.62	7.12	1472.
100	5.56	32.783	99	25.879	214.1	5.56	212.9	2.16	1.10	7.09	1472.
125	4.42	33.222	124	26.354	169.1	4.41	167.9	2.65	1.65	5.69	1468.
150	4.59	33.712	149	26.724	134.3	4.58	132.8	3.03	2.18	4.04	1470.
175	4.41	33.780	174	26.797	127.6	4.40	125.8	3.35	2.71	3.39	1470.
200	4.21	33.823	199	26.852	122.5	4.19	120.6	3.66	3.31	2.80	1469.
225	4.09	33.850	223	26.886	119.4	4.07	117.3	3.96	3.96	2.51	1469.
250	3.98	33.875	248	26.917	116.7	3.97	114.4	4.25	4.68	2.24	1469.
300	3.87	33.938	298	26.979	111.1	3.84	108.5	4.82	6.27	1.76	1470.
400	3.76	34.035	397	27.066	103.6	3.73	100.1	5.90	10.10	1.31	1471.
500	3.65	34.123	496	27.147	96.7	3.61	92.4	6.89	14.68	.93	1472.
600	3.52	34.163	595	27.191	93.1	3.48	88.2	7.84	19.98	.94	1474.
700	3.33	34.236	694	27.267	86.4	3.29	80.9	8.75	25.97	.83	1474.
800	3.14	34.314	793	27.348	79.1	3.08	73.2	9.57	32.27	.68	1475.
900	2.98	34.369	891	27.406	74.1	2.92	67.7	10.34	38.91	.61	1476.
1000	2.84	34.413	990	27.454	69.9	2.77	63.1	11.05	45.84	.55	1478.
1200	2.60	34.445	1188	27.501	66.0	2.52	58.6	12.41	61.10	.58	1480.
1500	2.33	34.513	1484	27.577	59.5	2.23	51.2	14.29	86.89	.80	1484.
2000	1.95	34.585	1976	27.665	52.0	1.82	42.7	17.07	136.44	1.42	1491.
2500	1.75	34.624	2467	27.712	48.3	1.57	37.9	19.57	193.72	2.03	1498.
3000	1.59	34.650	2956	27.744	45.9	1.37	34.6	21.93	259.72	2.61	1506.
3500	1.54	34.669	3445	27.764	45.2	1.27	32.5	24.20	334.94	3.01	1514.
4000	1.55	34.676	3933	27.769	46.1	1.22	31.7	26.47	421.87	3.27	1523.
4100	1.54	34.679	4031	27.772	46.0	1.20	31.3	26.93	440.93	3.31	1525.
4200	1.52	34.682	4128	27.775	45.9	1.18	31.0	27.39	460.36	3.39	1526.

Results of STD Observations

(P-78-1)

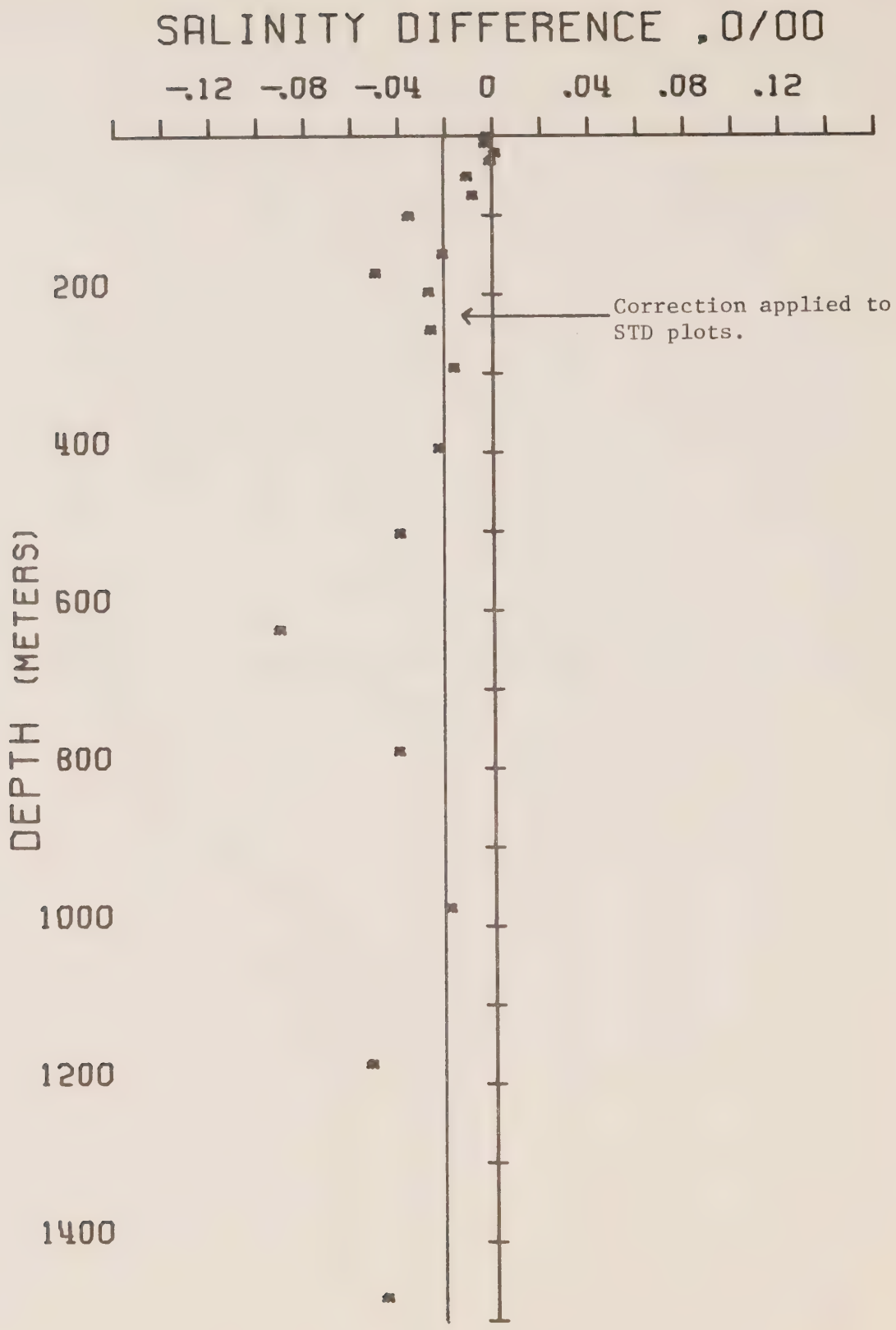


Figure 5. Salinity difference between hydro data and STD.

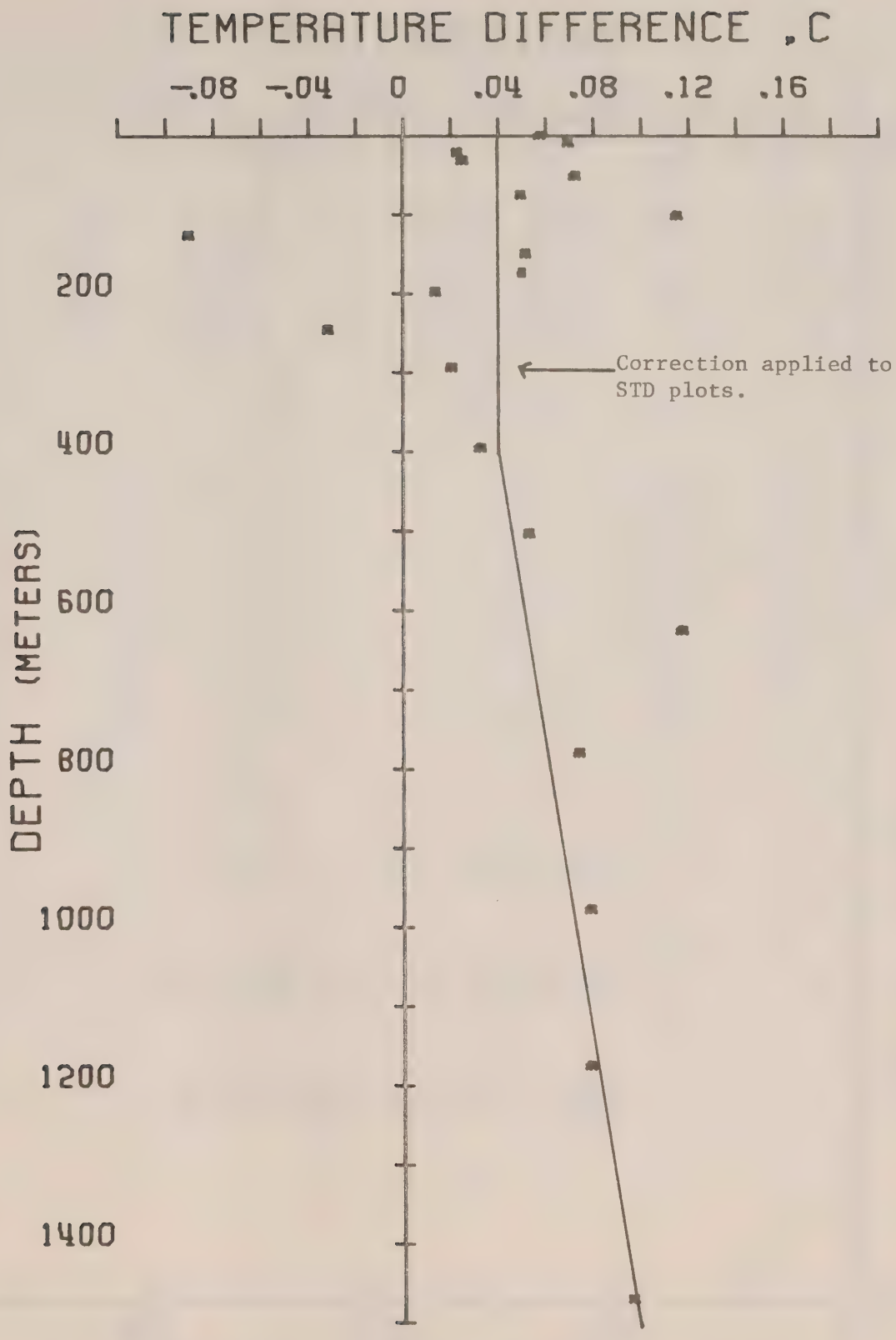
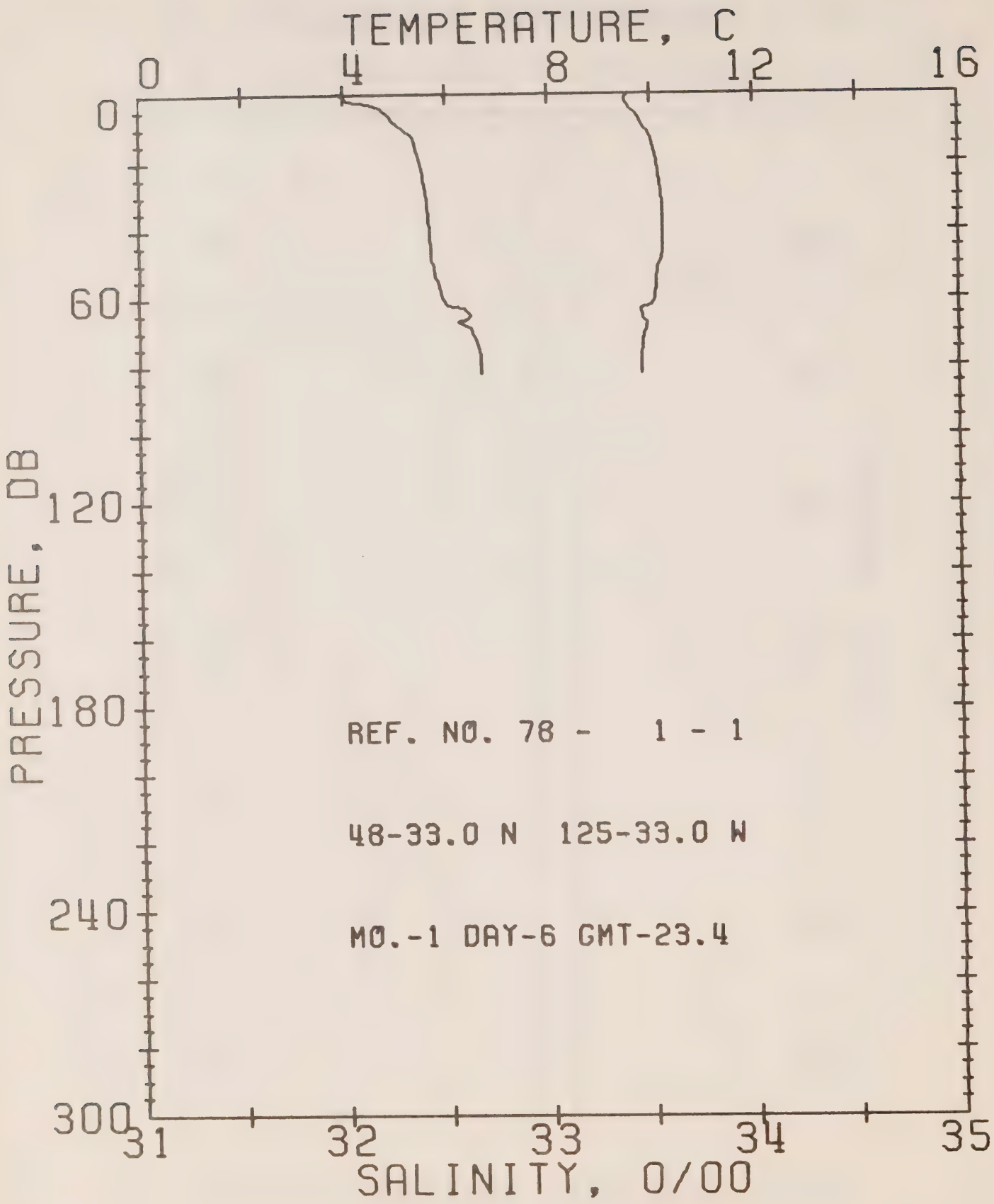


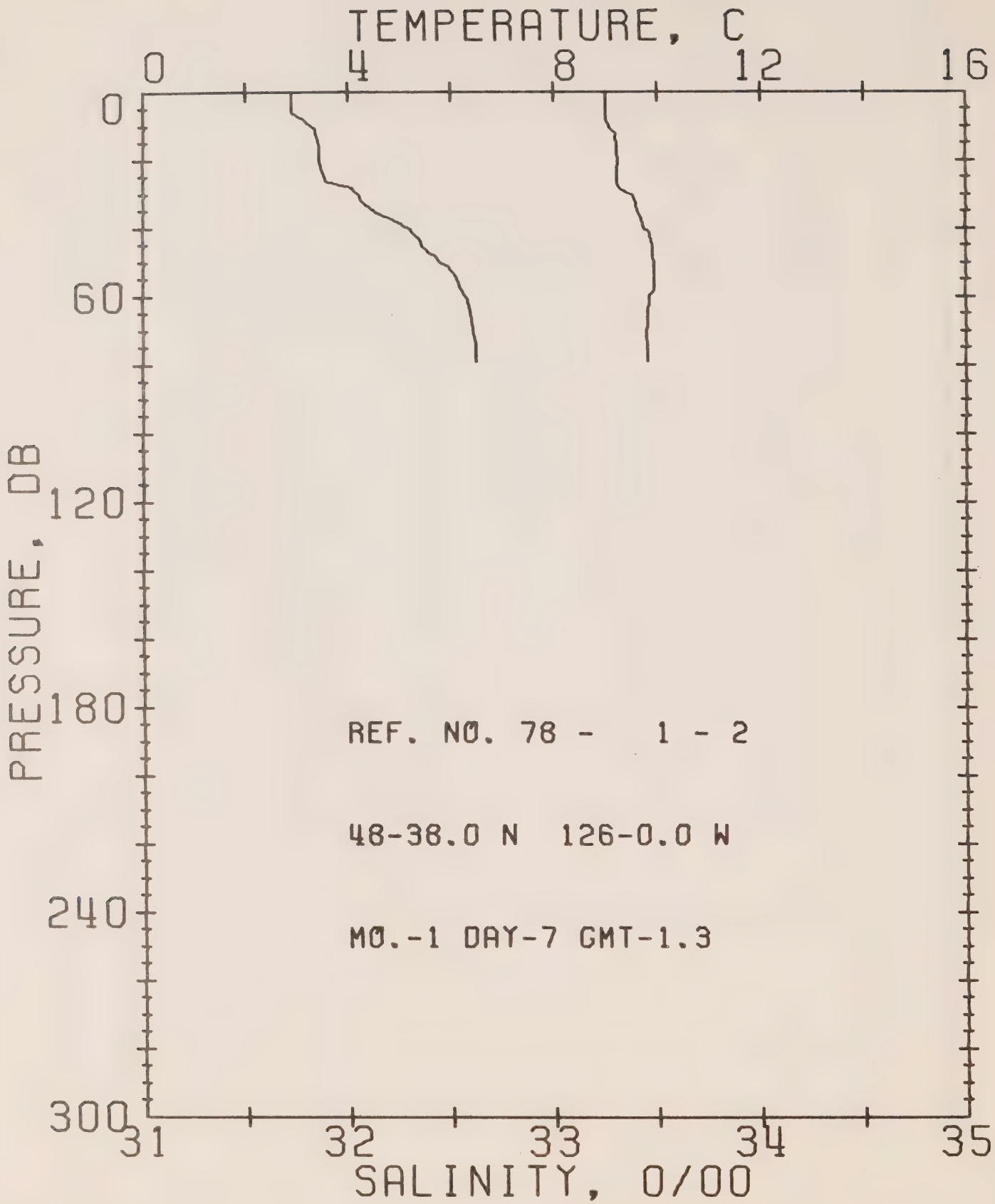
Figure 6. Temperature difference between hydro data and STD.


TEMPERATURE, C
0
4
8
12
16
0
60
120
180
240
300
PRESSURE, DB
REF. NO. 78 - 1 - 1
48-33.0 N 125-33.0 W
MO.-1 DAY-6 GMT-23.4
31
32
33
34
35
SALINITY, O/OO

OREGON OCEANOGRAPHY GROUP
REFERENCE NO. 78- 1- 1 DATE 6/ 1/78 STATION 1
POSITION 48-33.0N, 125-33.0W GMT 23.4
RESULTS OF STP CAST 40 POINTS TAKEN FROM ANALOG TRACE

PRESS	TEMP	SAL /	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	9.56	31.98	0	24.69	325.9	0.0	0.0	1485.
10	9.89	32.29	10	24.88	308.4	0.31	0.02	1487.
20	10.13	32.37	20	24.91	306.2	0.62	0.06	1488.
30	10.23	32.40	30	24.91	305.7	0.93	0.14	1488.
50	10.16	32.43	50	24.95	302.8	1.54	0.39	1489.
75	9.82	32.66	75	25.18	281.3	2.27	0.85	1488.

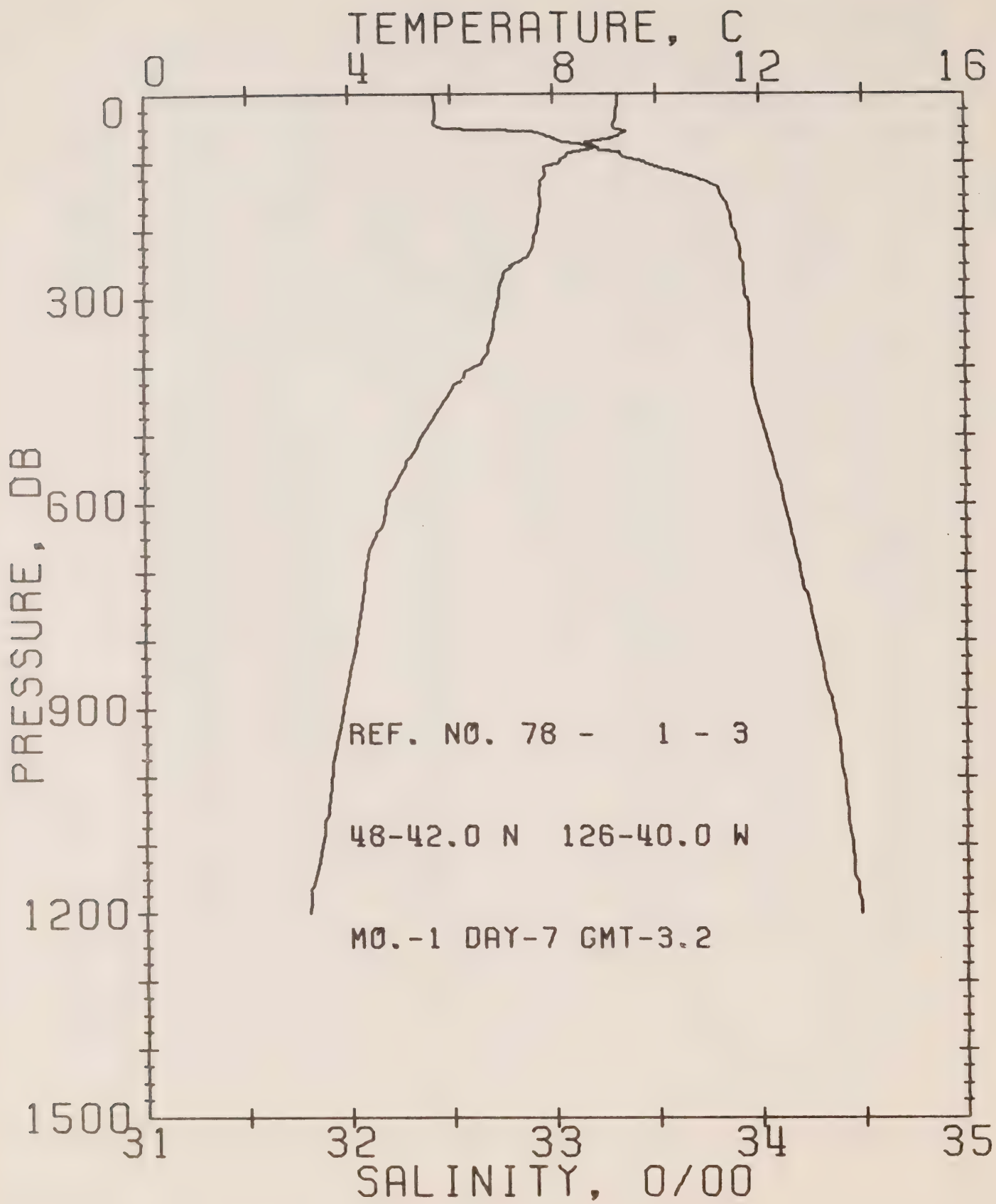
DEPTH	TEMP	SAL	DEPTH	TEMP	SAL
0.	9.56	31.98	46.	10.23	32.43
1.	9.51	32.00	48.	10.20	32.43
2.	9.52	32.02	49.	10.19	32.43
3.	9.54	32.12	51.	10.13	32.44
4.	9.61	32.18	54.	10.11	32.45
5.	9.69	32.20	55.	10.10	32.46
7.	9.79	32.23	60.	10.07	32.48
8.	9.80	32.24	62.	9.99	32.51
10.	9.89	32.29	63.	9.80	32.59
12.	10.00	32.33	65.	9.84	32.62
13.	10.02	32.34	66.	9.87	32.61
18.	10.11	32.36	67.	9.92	32.58
19.	10.12	32.37	69.	9.92	32.62
24.	10.17	32.39	70.	9.88	32.63
25.	10.18	32.39	73.	9.84	32.65
29.	10.22	32.40	77.	9.81	32.67
32.	10.24	32.41	79.	9.80	32.67
33.	10.25	32.41	80.	9.80	32.67
41.	10.25	32.42	81.	9.80	32.67
42.	10.25	32.42	82.	9.80	32.67


TEMPERATURE, C
0
4
8
12
16
0
60
120
180
240
300
PRESSURE, DB
REF. NO. 78 - 1 - 2
48-38.0 N 126-0.0 W
MO.-1 DAY-7 GMT-1.3
31
32
33
34
35
SALINITY, O/OO

OFFSHORE OCEANOGRAPHY GROUP
REFERENCE NO. 78- 1- 2 DATE 7/ 1/78 STATION 2
POSITION 48-38.0N, 126- 0.0W GMT 1.3
RESULTS OF STP CAST 47 POINTS TAKEN FROM ANALOG TRACE

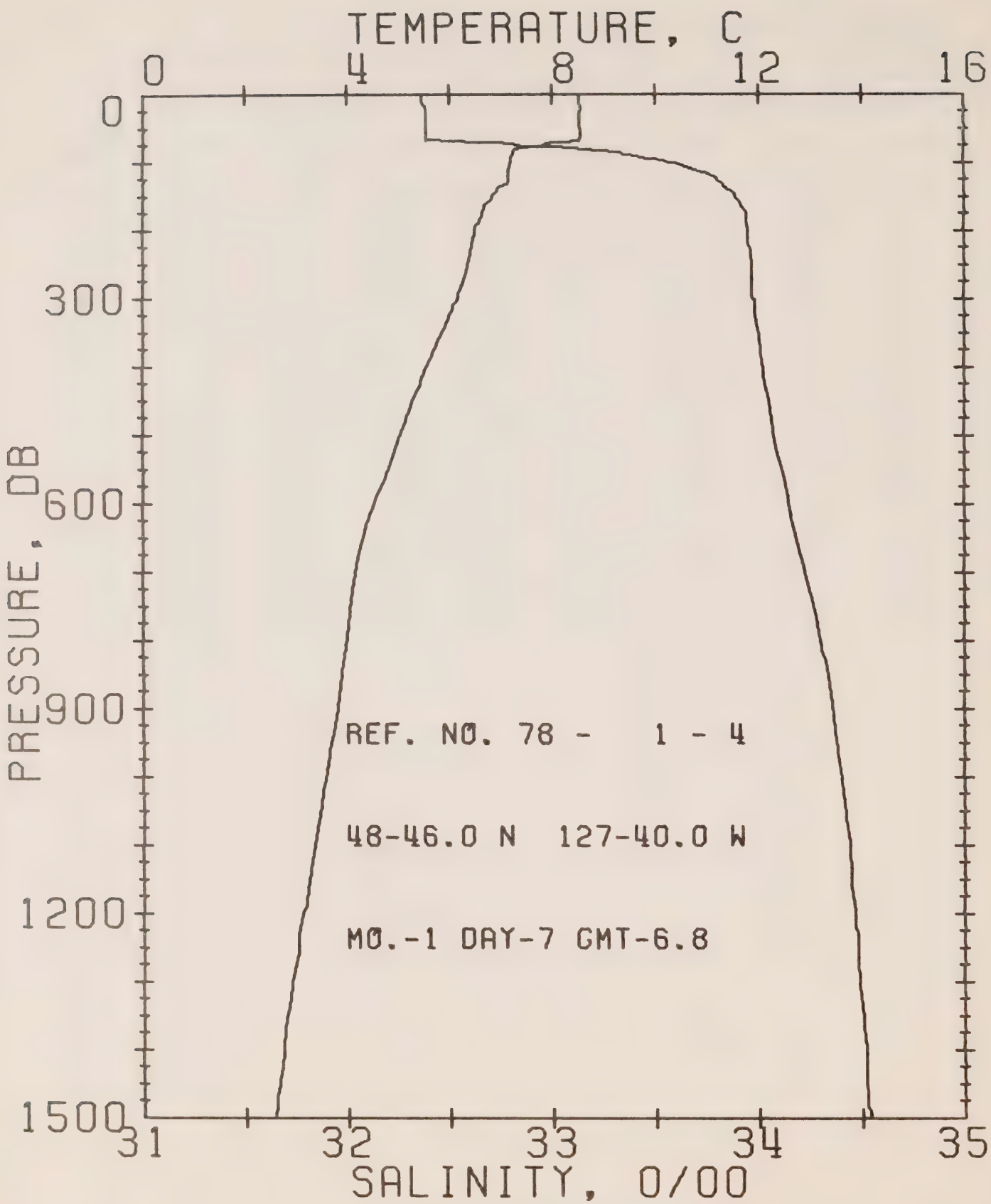
PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	9.01	31.73	0	24.58	336.3	0.0	0.0	1483.
10	9.08	31.82	10	24.64	331.0	0.34	0.02	1483.
20	9.24	31.86	20	24.65	330.6	0.67	0.07	1484.
30	9.52	32.05	30	24.75	320.9	0.99	0.15	1485.
50	9.94	32.45	50	25.00	298.1	1.61	0.40	1488.
75	9.81	32.62	75	25.15	284.0	2.33	0.86	1488.

DEPTH	TEMP	SAL	DEPTH	TEMP	SAL
0.	9.01	31.73	40.	9.77	32.30
3.	9.01	31.73	41.	9.83	32.31
4.	9.01	31.73	42.	9.87	32.33
6.	9.02	31.73	43.	9.90	32.34
8.	9.02	31.78	45.	9.92	32.36
10.	9.08	31.82	47.	9.93	32.39
11.	9.13	31.84	48.	9.93	32.42
12.	9.21	31.84	50.	9.94	32.45
16.	9.23	31.86	51.	9.95	32.48
17.	9.23	31.86	54.	9.94	32.52
20.	9.24	31.86	55.	9.94	32.53
23.	9.22	31.87	58.	9.94	32.55
24.	9.22	31.88	59.	9.90	32.56
26.	9.22	31.89	60.	9.84	32.57
27.	9.22	31.94	61.	9.84	32.58
28.	9.28	32.02	62.	9.83	32.58
29.	9.33	32.03	63.	9.81	32.59
30.	9.52	32.05	67.	9.80	32.60
32.	9.60	32.07	71.	9.79	32.61
33.	9.61	32.08	74.	9.81	32.62
35.	9.63	32.13	76.	9.81	32.62
36.	9.68	32.16	77.	9.81	32.62
37.	9.70	32.20	79.	9.81	32.62
39.	9.72	32.26			


TEMPERATURE, C
0
4
8
12
16
0
300
600
900
1200
1500
PRESSURE, DB
REF. NO. 78 - 1 - 3
48-42.0 N 126-40.0 W
MO.-1 DAY-7 GMT-3.2
31
32
33
34
35
SALINITY, O/OO

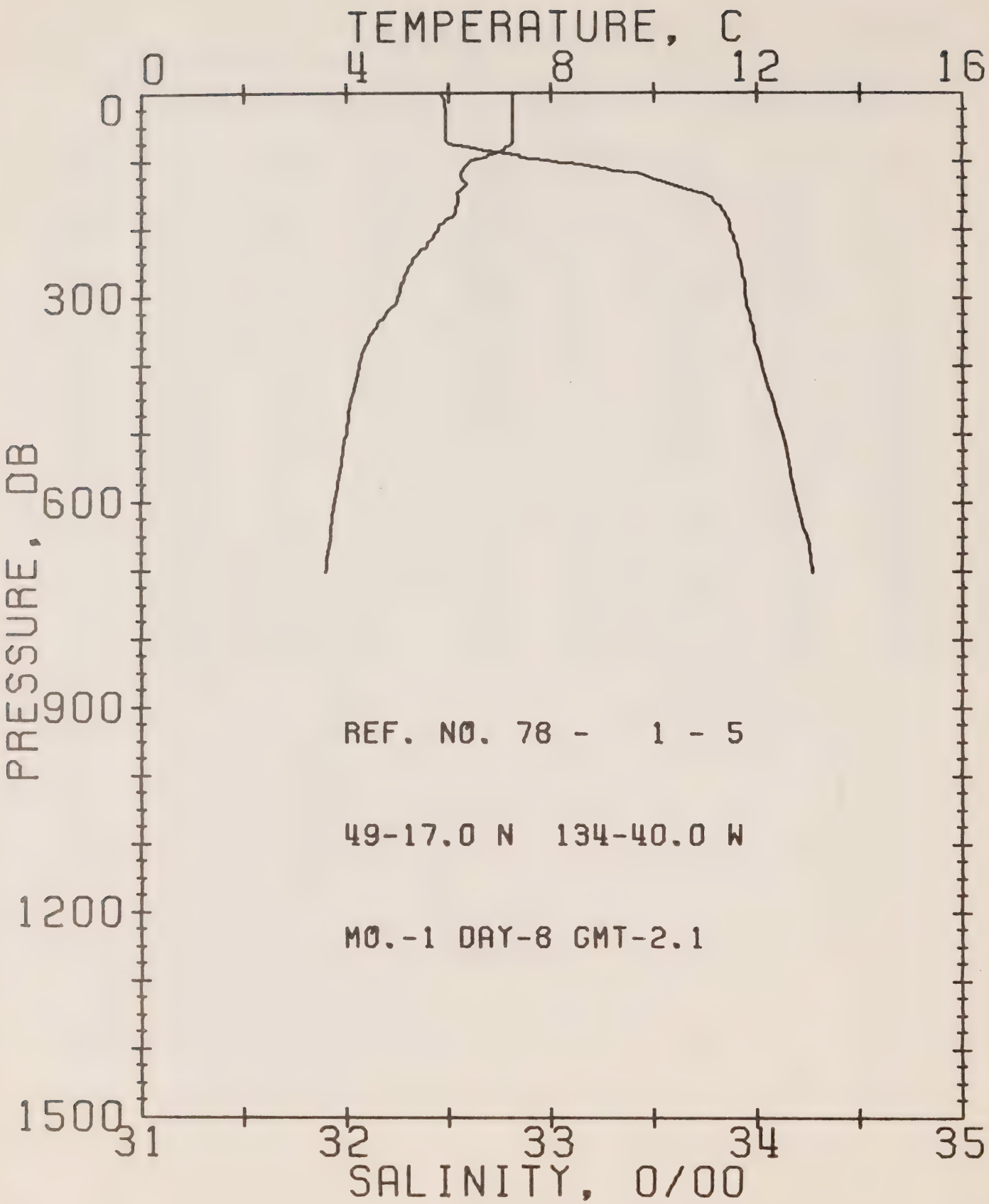
OFFSHORE OCEANOGRAPHY GROUP
REFERENCE NO. 78- 1- 3 DATE 7/ 1/78 STATION 3
POSITION 48-42.0N, 126-40.0W GMT 3.2
RESULTS OF STP CAST 185 POINTS TAKEN FROM ANALOG TRACE

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	9.26	32.42	0	25.08	288.7	0.0	0.0	1484.
10	9.25	32.42	10	25.09	289.0	0.29	0.01	1484.
20	9.23	32.43	20	25.10	288.1	0.58	0.06	1485.
30	9.23	32.43	30	25.10	288.3	0.87	0.13	1485.
50	9.19	32.46	50	25.13	285.8	1.44	0.37	1485.
75	8.80	33.17	75	25.74	227.7	2.06	0.76	1485.
100	8.12	33.44	99	26.06	197.9	2.59	1.23	1483.
125	7.77	33.72	124	26.33	172.8	3.06	1.76	1482.
150	7.75	33.82	149	26.41	165.7	3.48	2.35	1483.
175	7.73	33.86	174	26.44	162.9	3.89	3.03	1483.
200	7.66	33.86	199	26.47	160.8	4.29	3.80	1483.
225	7.58	33.90	223	26.50	158.1	4.69	4.67	1484.
250	7.22	33.92	248	26.56	152.3	5.08	5.61	1483.
300	6.92	33.94	298	26.62	147.4	5.83	7.70	1482.
400	6.47	33.96	397	26.70	141.3	7.28	12.88	1482.
500	5.43	34.03	496	26.88	124.2	8.61	18.95	1480.
600	4.71	34.11	595	27.03	110.2	9.77	25.48	1478.
800	4.10	34.27	793	27.22	93.1	11.79	39.83	1479.
1000	3.61	34.40	991	27.37	79.5	13.51	55.53	1481.
1200	3.17	34.48	1188	27.48	70.0	15.01	72.30	1482.


TEMPERATURE, C
0
4
8
12
16
0
300
600
900
1200
1500
PRESSURE, DB
REF. NO. 78 - 1 - 4
48-46.0 N 127-40.0 W
MO.-1 DAY-7 GMT-6.8
31
32
33
34
35
SALINITY, O/OO

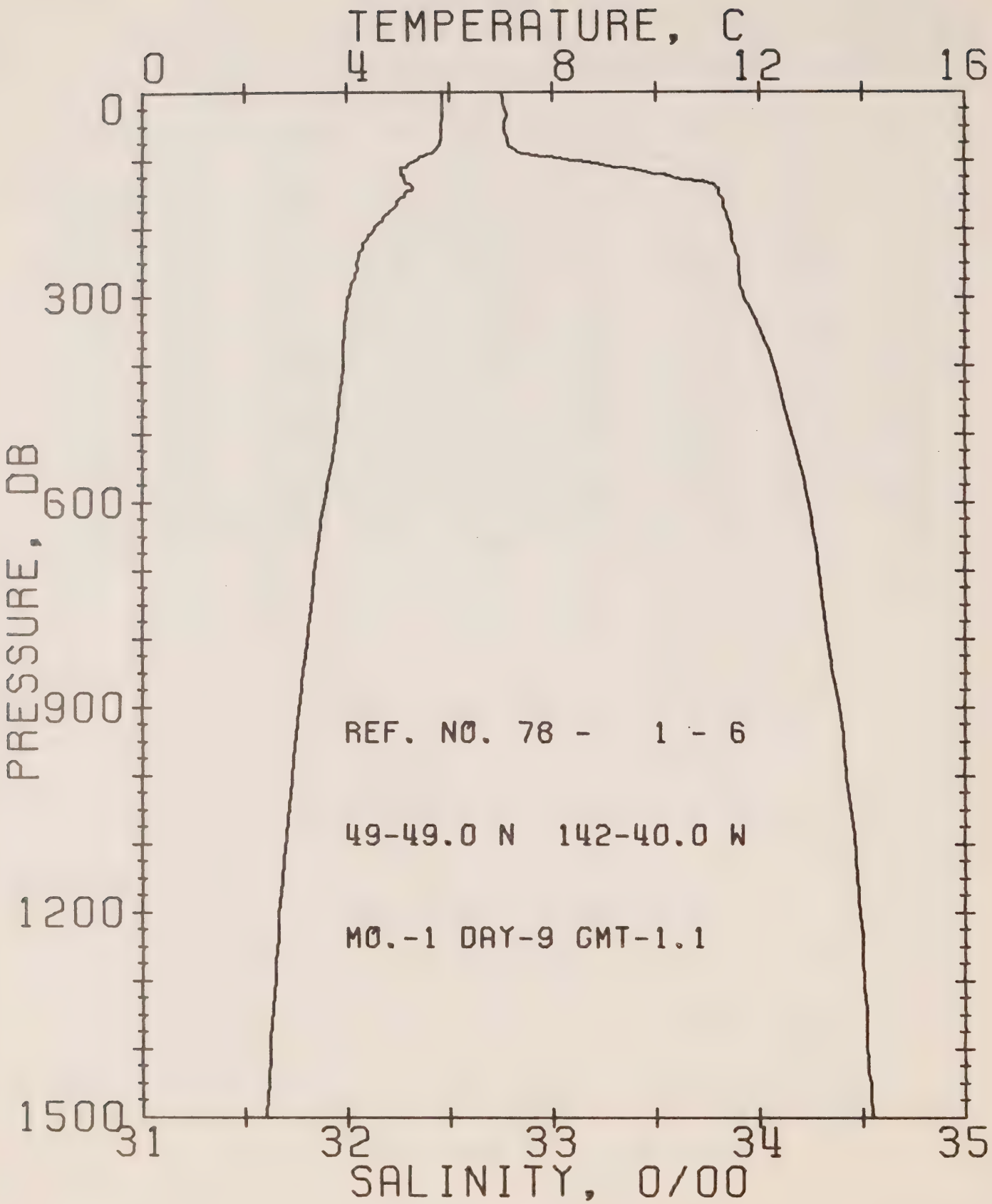
OFFSHORE OCEANOGRAPHY GROUP
REFERENCE NO. 78- 1- 4 DATE 7/ 1/78 STATION 4
POSITION 43-46.0N. 127-40.0W GMT 6.8
RESULTS OF STD CAST 173 POINTS TAKEN FROM ANALOG TRACE

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	8.54	32.37	0	25.16	281.9	0.0	0.0	1482.
10	8.54	32.37	10	25.16	282.3	0.23	0.01	1482.
20	8.55	32.38	20	25.16	281.6	0.56	0.06	1482.
30	8.54	32.39	30	25.17	281.1	0.85	0.13	1482.
50	8.53	32.39	50	25.17	281.5	1.41	0.36	1482.
75	7.80	32.86	75	25.65	236.5	2.09	0.79	1481.
100	7.18	33.56	99	26.28	176.3	2.58	1.22	1479.
125	7.14	33.80	124	26.48	158.2	2.99	1.70	1480.
150	6.83	33.89	149	26.59	147.8	3.37	2.23	1479.
175	6.62	33.94	174	26.66	141.8	3.73	2.83	1479.
200	6.49	33.95	199	26.68	139.7	4.09	3.50	1479.
225	6.41	33.95	223	26.70	138.6	4.43	4.26	1479.
250	6.35	33.97	248	26.72	136.9	4.78	5.09	1479.
300	6.14	33.97	298	26.75	134.9	5.46	7.00	1479.
400	5.53	34.02	397	26.86	125.0	6.76	11.62	1478.
500	5.00	34.07	496	26.96	115.8	7.96	17.13	1478.
600	4.49	34.14	595	27.08	105.5	9.07	23.33	1478.
800	3.95	34.29	793	27.26	89.7	11.01	37.11	1479.
1000	3.55	34.40	991	27.38	79.1	12.69	52.51	1481.
1200	3.09	34.47	1188	27.48	69.8	14.18	69.21	1482.
1500	2.56	34.54	1484	27.58	60.3	16.13	96.00	1485.


TEMPERATURE, C
0
4
8
12
16
0
300
600
900
1200
1500
PRESSURE, DB
REF. NO. 78 - 1 - 5
49-17.0 N 134-40.0 W
MO.-1 DAY-8 GMT-2.1
31
32
33
34
35
SALINITY, O/OO

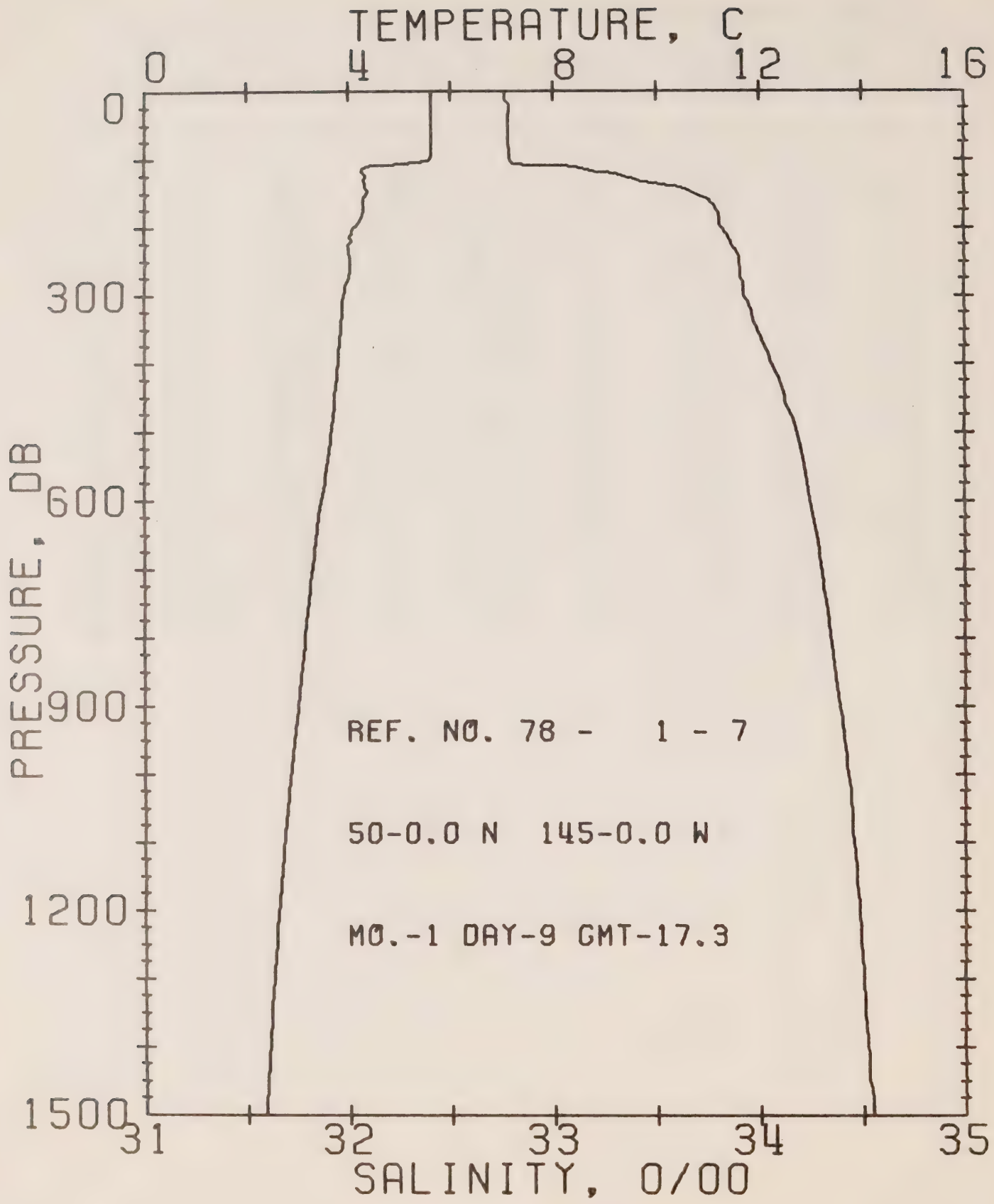
OFFSHORE OCEANOGRAPHY GROUP
REFERENCE NO. 78- 1- 5 DATE 8/ 1/78 STATION 8
POSITION 49-17.0N, 134-40.0W GMT 2.1
RESULTS OF STP CAST 134 POINTS TAKEN FROM ANALOG TRACE

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	7.24	32.47	0	25.42	256.7	0.0	0.0	1477.
10	7.24	32.48	10	25.43	256.5	0.26	0.01	1477.
20	7.24	32.48	20	25.43	256.4	0.51	0.05	1477.
30	7.24	32.49	30	25.44	255.9	0.77	0.12	1477.
50	7.24	32.49	50	25.44	256.1	1.28	0.33	1478.
75	7.21	32.52	75	25.46	253.8	1.92	0.73	1478.
100	6.44	33.01	99	25.95	207.8	2.50	1.25	1476.
125	6.27	33.50	124	26.36	169.3	2.97	1.78	1476.
150	6.20	33.76	149	26.57	149.4	3.37	2.34	1477.
175	6.11	33.83	174	26.64	143.1	3.73	2.94	1477.
200	5.77	33.87	199	26.71	136.6	4.08	3.61	1476.
225	5.54	33.90	223	26.76	131.9	4.42	4.34	1475.
250	5.24	33.92	248	26.82	127.1	4.74	5.12	1475.
300	4.98	33.94	298	26.86	123.2	5.36	6.87	1474.
400	4.23	34.02	397	27.01	109.8	6.52	10.99	1473.
500	3.98	34.12	496	27.11	100.4	7.57	15.79	1474.
600	3.75	34.19	595	27.20	93.2	8.54	21.21	1475.


TEMPERATURE, C
0
4
8
12
16
0
300
600
900
1200
1500
PRESSURE, DB
REF. NO. 78 - 1 - 6
49-49.0 N 142-40.0 W
MO.-1 DAY-9 GMT-1.1
31
32
33
34
35
SALINITY, O/OO

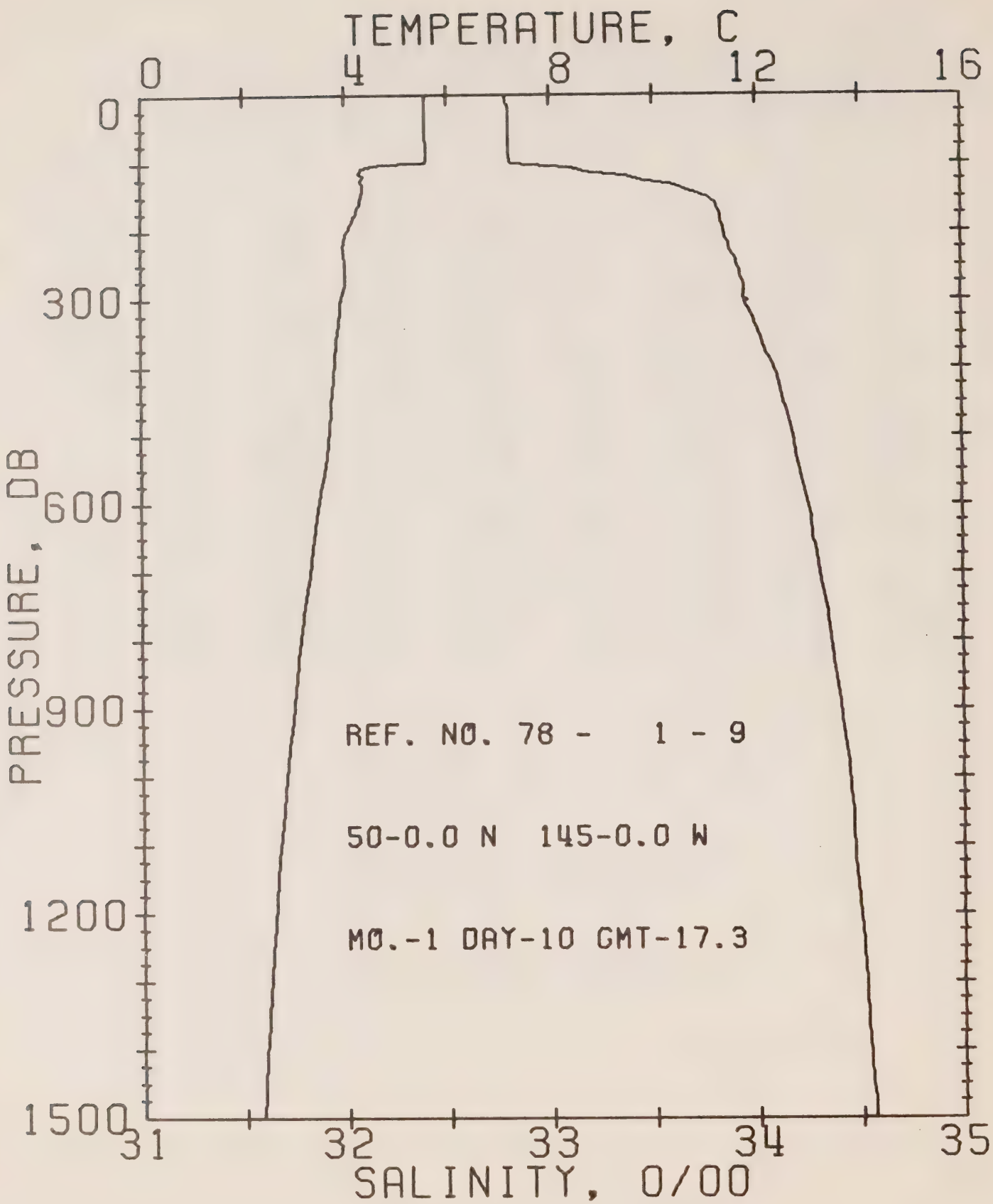
OFFSHORE OCEANOGRAPHY GROUP
REFERENCE NO. 78- 1- 6 DATE 9/ 1/78 STATION 12
POSITION 49-49.0N, 142-40.0W GMT 1.1
RESULTS OF STP CAST 168 POINTS TAKEN FROM ANALOG TRACE

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	FOT. EN	SOUND
0	5.86	32.75	0	25.82	218.9	0.0	0.0	1472.
10	5.86	32.76	10	25.83	218.4	0.22	0.01	1472.
20	5.86	32.76	20	25.83	218.3	0.44	0.04	1472.
30	5.86	32.78	30	25.84	217.3	0.66	0.10	1472.
50	5.85	32.77	50	25.84	218.0	1.09	0.28	1472.
75	5.81	32.78	75	25.85	216.8	1.63	0.62	1473.
100	5.36	33.10	99	26.15	188.2	2.15	1.09	1472.
125	5.09	33.59	124	26.57	148.8	2.57	1.56	1472.
150	5.14	33.81	149	26.74	133.1	2.91	2.04	1472.
175	4.85	33.83	174	26.79	128.3	3.24	2.58	1472.
200	4.54	33.86	199	26.85	123.2	3.55	3.18	1471.
225	4.33	33.88	223	26.89	119.9	3.86	3.84	1470.
250	4.20	33.90	248	26.92	117.1	4.15	4.55	1470.
300	4.03	33.92	298	26.95	114.3	4.73	6.18	1470.
400	3.91	34.07	397	27.08	102.7	5.81	10.01	1472.
500	3.77	34.16	496	27.16	95.5	6.80	14.55	1473.
600	3.54	34.23	595	27.25	88.1	7.72	19.67	1474.
800	3.20	34.33	793	27.35	78.9	9.38	31.50	1476.
1000	2.91	34.42	990	27.45	70.2	10.86	45.02	1478.
1200	2.66	34.49	1188	27.53	63.5	12.19	59.92	1480.
1500	2.40	34.55	1483	27.60	57.7	14.01	84.96	1484.


TEMPERATURE, C
0
4
8
12
16
0
300
600
900
1200
1500
PRESSURE, DB
REF. NO. 78 - 1 - 7
50-0.0 N 145-0.0 W
MO.-1 DAY-9 GMT-17.3
31
32
33
34
35
SALINITY, O/OO

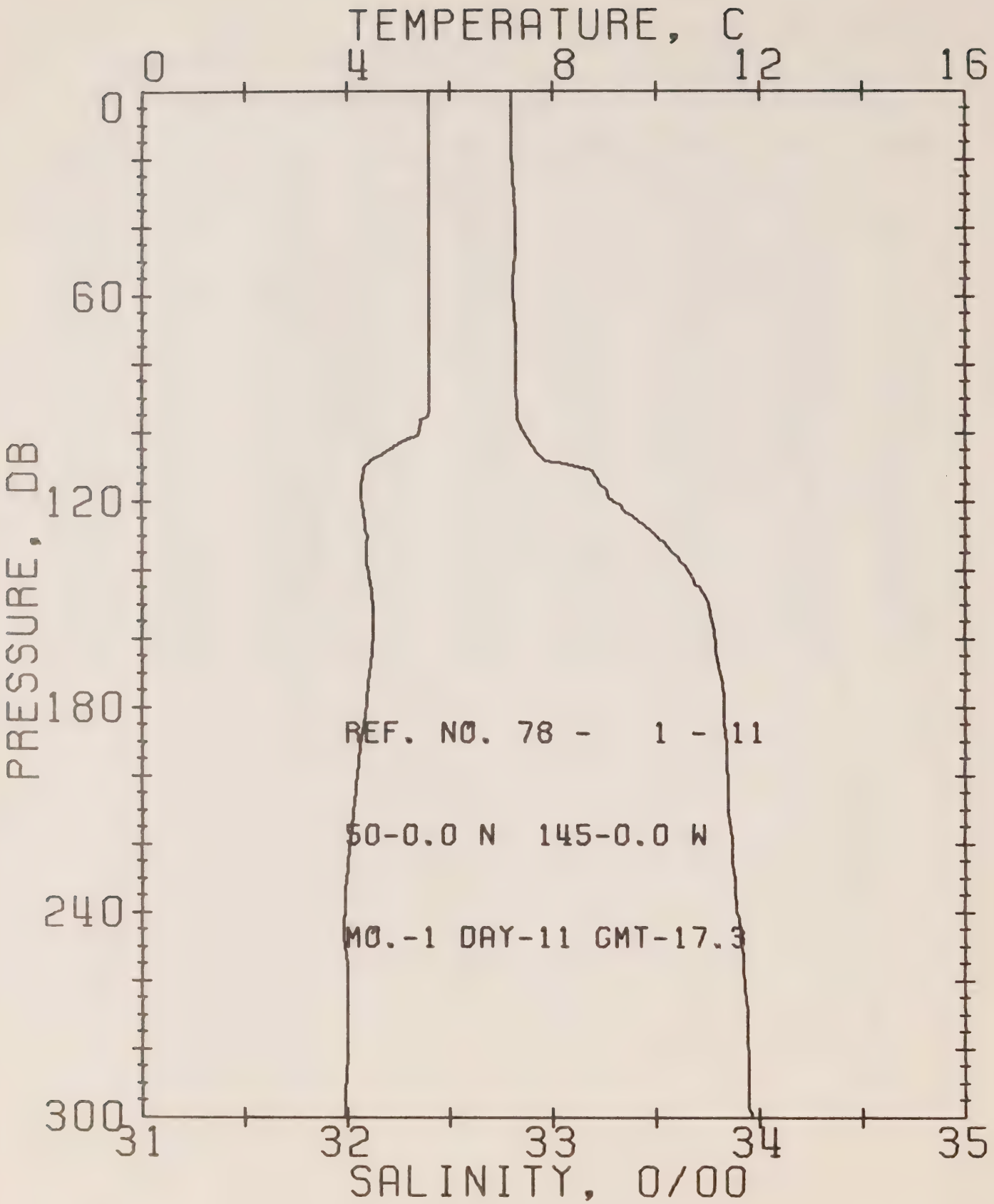
OFFSHORE OCEANOGRAPHY GROUP
REFERENCE NO. 78- 1- 7 DATE 9/ 1/78 STATION P
POSITION 50- 0.0N, 145- 0.0W GMT 17.3
RESULTS OF STP CAST 161 POINTS TAKEN FROM ANALOG TRACE

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.62	32.77	0	25.86	214.6	0.0	0.0	1471.
10	5.62	32.77	10	25.86	214.9	0.21	0.01	1471.
20	5.62	32.78	20	25.88	214.0	0.43	0.04	1471.
30	5.62	32.79	30	25.88	213.9	0.64	0.10	1471.
50	5.63	32.78	50	25.87	214.7	1.07	0.27	1471.
75	5.63	32.78	75	25.87	215.0	1.61	0.52	1472.
100	5.58	32.79	99	25.88	213.9	2.15	1.09	1472.
125	4.32	33.35	124	26.47	158.2	2.60	1.61	1468.
150	4.34	33.69	149	26.73	133.4	2.96	2.12	1469.
175	4.30	33.79	174	26.82	125.5	3.28	2.65	1469.
200	4.08	33.82	199	26.86	121.5	3.59	3.24	1469.
225	4.00	33.86	223	26.91	117.6	3.89	3.89	1469.
250	4.03	33.90	248	26.93	115.4	4.18	4.59	1470.
300	3.90	33.92	298	26.96	112.9	4.75	6.19	1470.
400	3.78	34.06	397	27.08	102.3	5.83	10.01	1471.
500	3.64	34.13	496	27.19	92.4	6.80	14.46	1472.
600	3.44	34.24	595	27.26	86.6	7.69	19.46	1473.
800	3.12	34.34	793	27.37	77.0	9.31	31.01	1475.
1000	2.84	34.42	990	27.47	69.1	10.77	44.32	1478.
1200	2.60	34.48	1188	27.53	63.6	12.09	59.10	1480.
1500	2.34	34.55	1483	27.61	57.0	13.90	83.96	1484.


TEMPERATURE, C
0
4
8
12
16
0
300
600
900
1200
1500
PRESSURE, DB
REF. NO. 78 - 1 - 9
50-0.0 N 145-0.0 W
MO.-1 DAY-10 GMT-17.3
31
32
33
34
35
SALINITY, O/OO

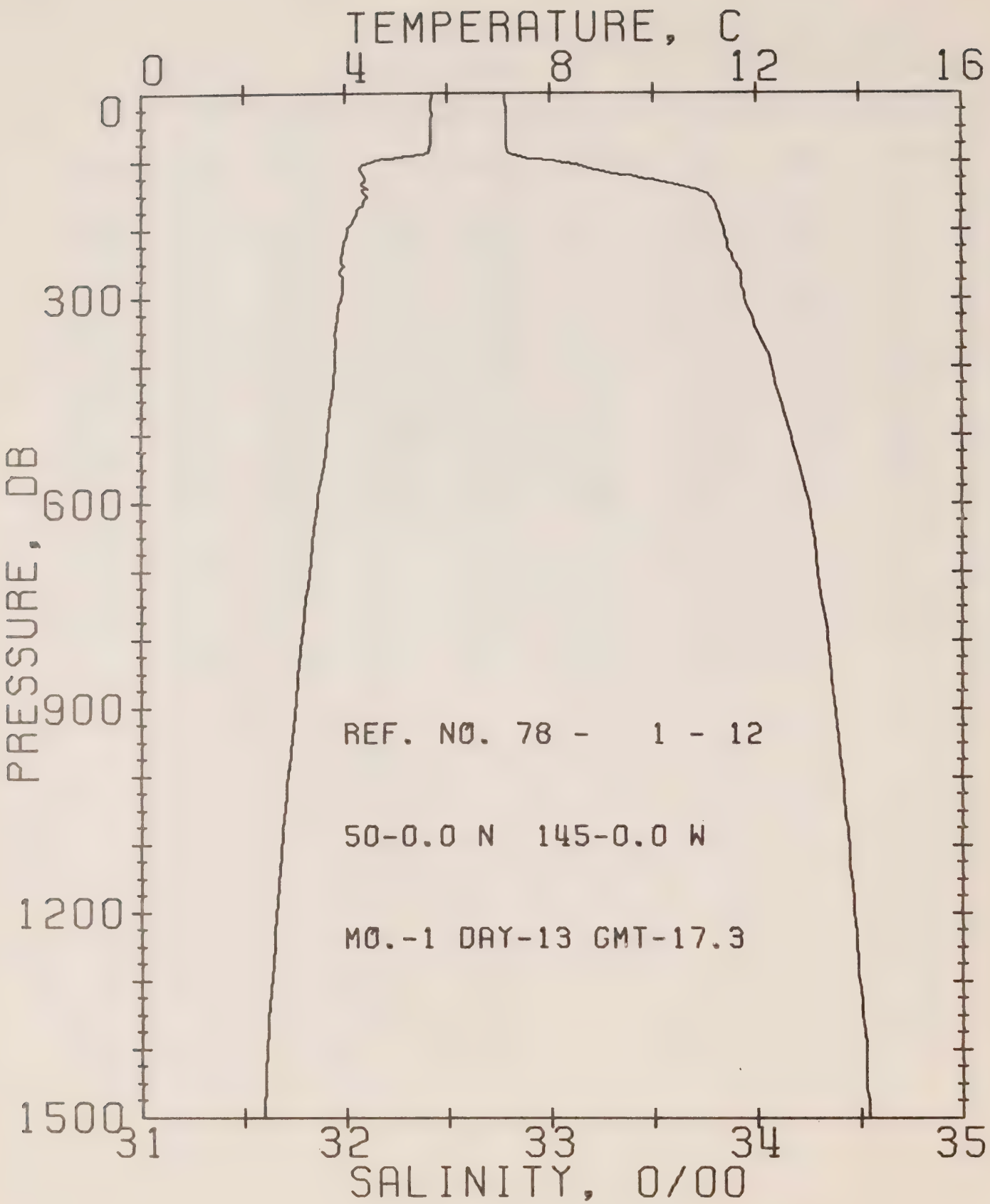
OFFSHORE OCEANOGRAPHY GROUP
REFERENCE NO. 78- 1- 9 DATE 10/ 1/78 STATION P
POSITION 50- 0.0N. 145- 0.0W GMT 17.3
RESULTS OF STP CAST 147 POINTS TAKEN FROM ANALOG TRACE

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.58	32.79	0	25.88	212.6	0.0	0.0	1470.
10	5.58	32.79	10	25.88	212.9	0.21	0.01	1471.
20	5.58	32.80	20	25.89	212.3	0.43	0.04	1471.
30	5.58	32.80	30	25.89	212.4	0.64	0.10	1471.
50	5.58	32.80	50	25.89	212.6	1.06	0.27	1471.
75	5.59	32.80	75	25.89	213.0	1.59	0.61	1472.
100	5.58	32.82	99	25.91	211.7	2.13	1.08	1472.
125	4.31	33.45	124	26.55	150.9	2.56	1.57	1468.
150	4.31	33.76	149	26.80	127.5	2.90	2.05	1469.
175	4.19	33.82	174	26.86	122.0	3.21	2.57	1469.
200	4.04	33.84	199	26.89	119.5	3.51	3.15	1469.
225	3.97	33.87	223	26.92	116.8	3.81	3.78	1469.
250	4.00	33.91	248	26.94	114.6	4.10	4.48	1469.
300	3.92	33.94	298	26.98	111.7	4.66	6.06	1470.
400	3.77	34.08	397	27.10	100.5	5.72	9.84	1471.
500	3.67	34.17	496	27.19	93.3	6.69	14.26	1473.
600	3.45	34.24	595	27.26	86.5	7.59	19.30	1473.
800	3.09	34.36	793	27.39	75.6	9.20	30.81	1475.
1000	2.80	34.44	990	27.49	67.1	10.63	43.84	1477.
1200	2.57	34.50	1188	27.55	62.0	11.92	58.33	1480.
1500	2.32	34.56	1483	27.62	56.1	13.69	82.57	1484.


TEMPERATURE, C
0
4
8
12
16
0
60
120
180
240
300
PRESSURE, DB
REF. NO. 78 - 1 - 11
50-0.0 N 145-0.0 W
MO.-1 DAY-11 GMT-17.3
31
32
33
34
35
SALINITY, O/OO

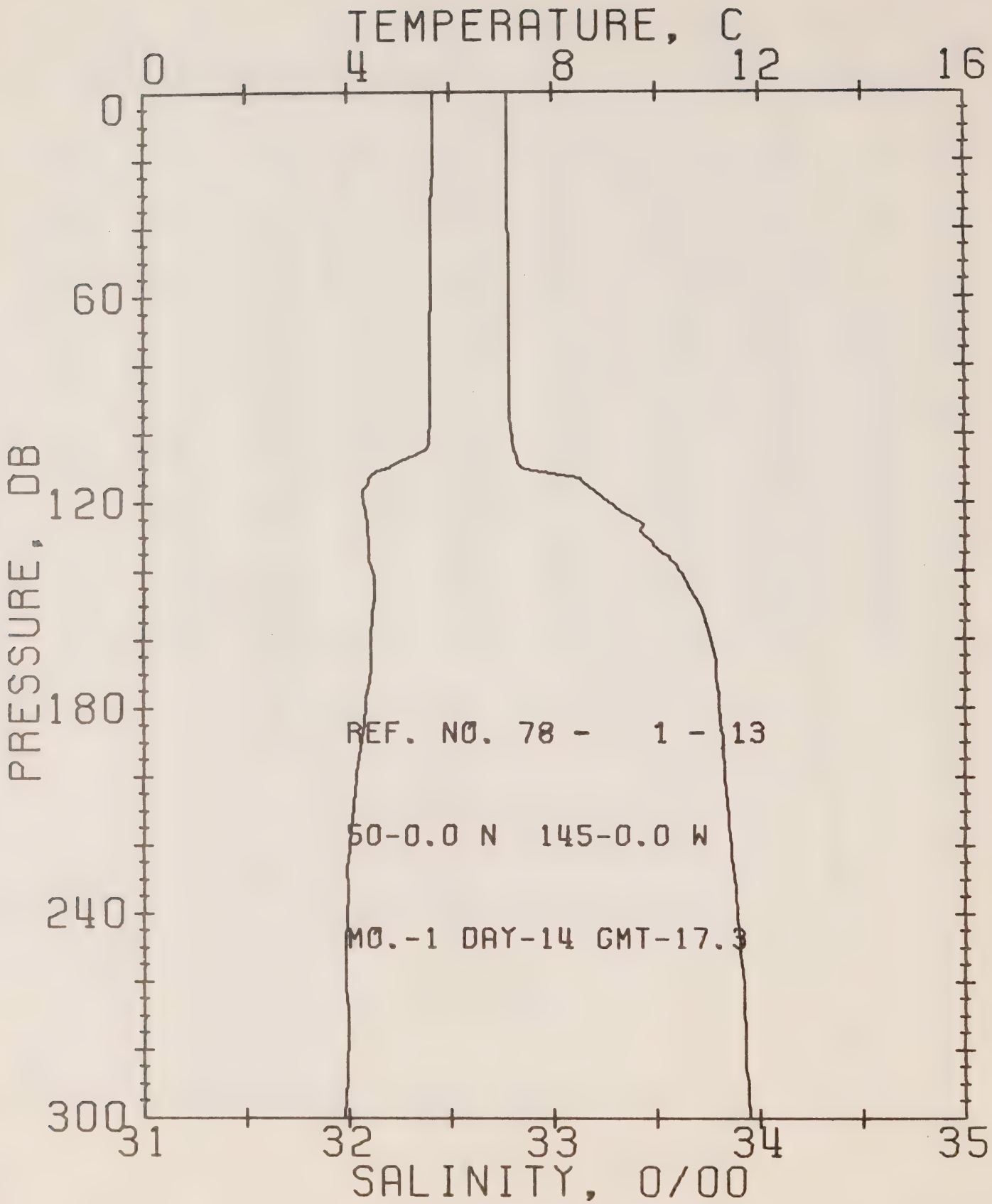
OFFSHORE OCEANOGRAPHY GROUP
REFERENCE NO. 78- 1- 11 DATE 11/ 1/78 STATION P
POSITION 50- 0.0N, 145- 0.0W GMT 17.3
RESULTS OF STP CAST 92 POINTS TAKEN FROM ANALOG TRACE

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.59	32.80	0	25.89	212.0	0.0	0.0	1471.
10	5.59	32.80	10	25.89	212.3	0.21	0.01	1471.
20	5.59	32.80	20	25.89	212.1	0.42	0.04	1471.
30	5.59	32.81	30	25.90	211.5	0.64	0.10	1471.
50	5.59	32.82	50	25.90	211.5	1.06	0.27	1471.
75	5.59	32.82	75	25.91	211.5	1.59	0.61	1472.
100	5.39	32.86	99	25.96	206.5	2.12	1.08	1471.
125	4.34	33.41	124	26.51	154.2	2.56	1.58	1468.
150	4.50	33.75	149	26.77	130.6	2.91	2.07	1470.
175	4.39	33.82	174	26.84	124.1	3.23	2.60	1470.
200	4.18	33.85	199	26.88	120.5	3.53	3.18	1469.
225	4.01	33.87	223	26.91	117.1	3.83	3.83	1469.
250	3.95	33.91	248	26.95	113.5	4.12	4.52	1469.
300	3.94	33.96	298	26.99	110.3	4.68	6.09	1470.


TEMPERATURE, C
0
4
8
12
16
0
300
600
900
1200
1500
PRESSURE, DB
REF. NO. 78 - 1 - 12
50-0.0 N 145-0.0 W
MO.-1 DAY-13 GMT-17.3
31
32
33
34
35
SALINITY, O/OO

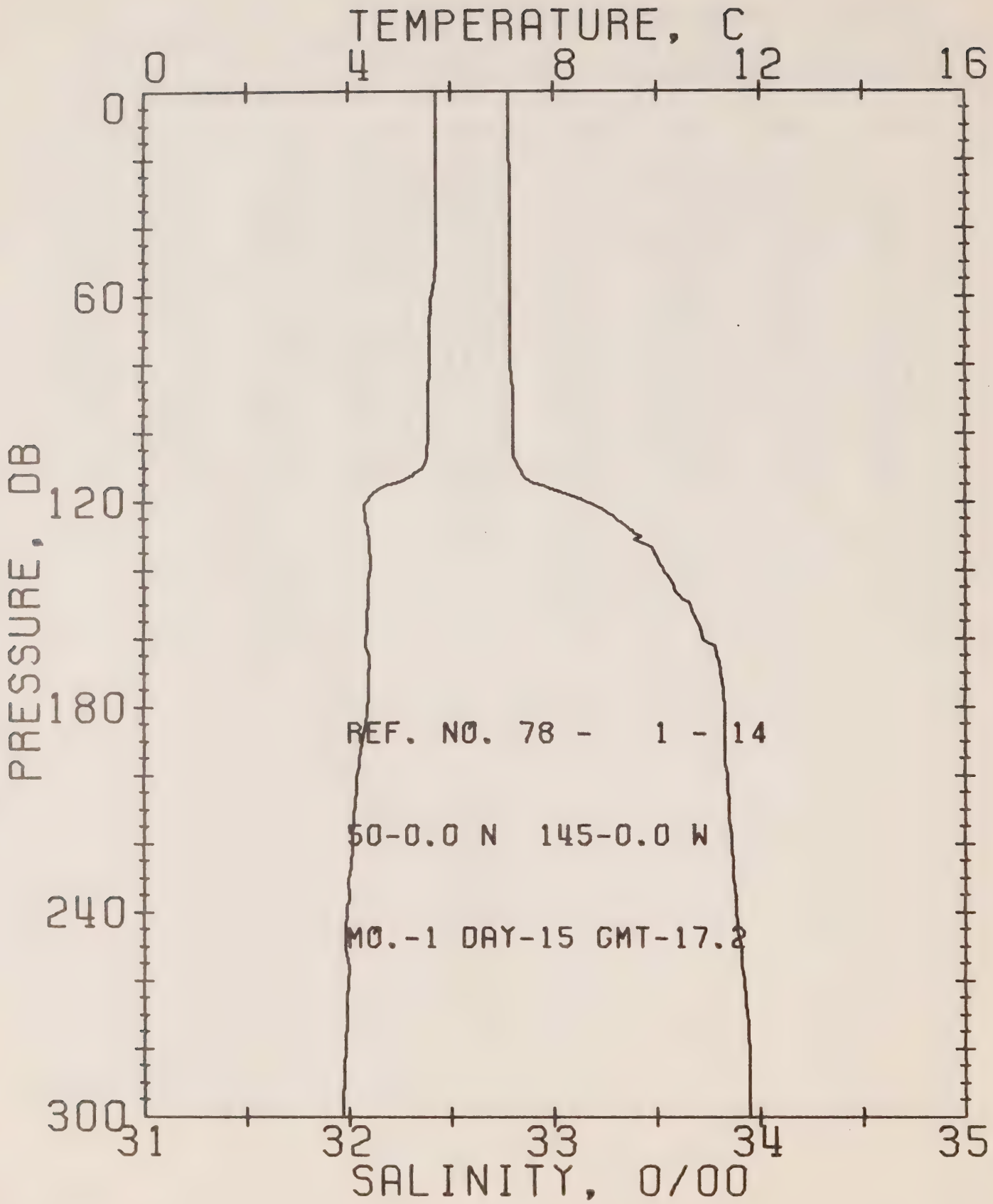
OFFSHORE OCEANOGRAPHY GROUP
REFERENCE NO. 78- 1- 12 DATE 13/ 1/78 STATION P
POSITION 50- 0.0N, 145- 0.0W GMT 17.3
RESULTS OF STD CAST 159 POINTS TAKEN FROM ANALOG TRACE

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.70	32.78	0	25.86	214.8	0.0	0.0	1471.
10	5.69	32.78	10	25.86	214.9	0.21	0.01	1471.
20	5.69	32.78	20	25.86	214.9	0.43	0.04	1471.
30	5.70	32.79	30	25.87	214.9	0.64	0.10	1471.
50	5.69	32.79	50	25.87	214.6	1.07	0.27	1472.
75	5.68	32.79	75	25.87	214.8	1.61	0.62	1472.
100	4.58	33.02	99	26.18	185.4	2.13	1.08	1468.
125	4.39	33.46	124	26.55	151.0	2.55	1.56	1468.
150	4.42	33.77	149	26.79	128.2	2.89	2.04	1469.
175	4.24	33.81	174	26.84	123.3	3.21	2.56	1469.
200	4.05	33.84	199	26.89	119.5	3.51	3.14	1469.
225	3.96	33.86	223	26.91	117.4	3.81	3.78	1469.
250	3.95	33.90	248	26.94	114.5	4.10	4.48	1469.
300	3.93	33.94	298	26.98	111.8	4.66	6.05	1470.
400	3.77	34.07	397	27.10	100.9	5.72	9.83	1471.
500	3.65	34.17	496	27.18	93.5	6.69	14.29	1472.
600	3.43	34.25	595	27.27	85.7	7.59	19.31	1473.
800	3.12	34.34	793	27.37	77.1	9.22	30.88	1475.
1000	2.86	34.41	990	27.46	70.0	10.69	44.36	1478.
1200	2.62	34.47	1188	27.52	64.5	12.03	59.40	1480.
1500	2.36	34.54	1483	27.60	58.0	13.86	84.45	1484.


TEMPERATURE, C
0
4
8
12
16
0
60
120
180
240
300
PRESSURE, DB
REF. NO. 78 - 1 - 13
50-0.0 N 145-0.0 W
MO.-1 DAY-14 GMT-17.3
31
32
33
34
35
SALINITY, O/OO

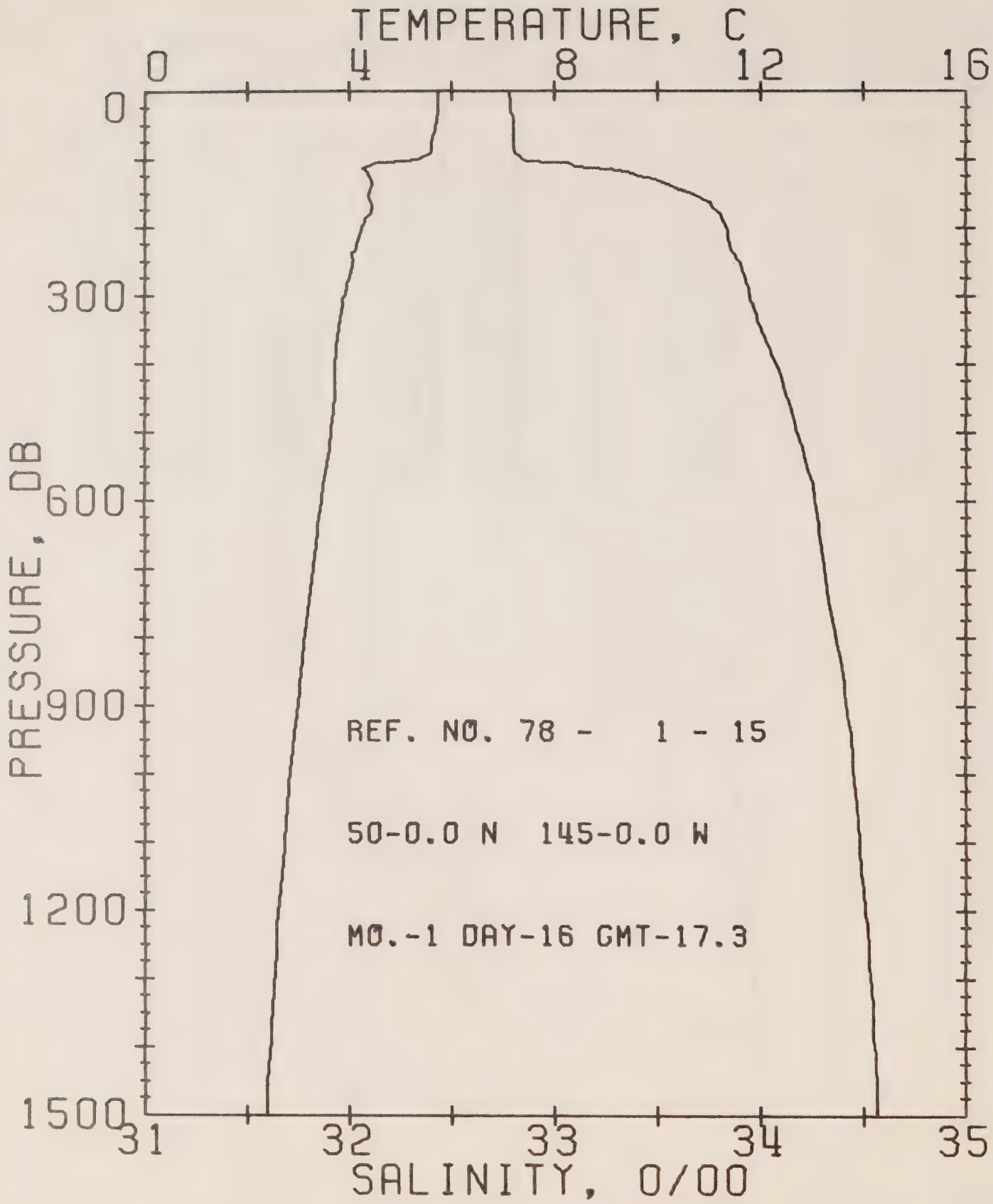
OFFSHORE OCEANOGRAPHY GROUP
REFERENCE NO. 78- 1- 13 DATE 14/ 1/78 STATION P
POSITION 50- 0.0N. 145- 0.0W GMT 17.3
RESULTS OF STP CAST 82 POINTS TAKEN FROM ANALOG TRACE

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.68	32.78	0	25.86	214.5	0.0	0.0	1471.
10	5.68	32.78	10	25.86	214.9	0.21	0.01	1471.
20	5.67	32.78	20	25.86	215.0	0.43	0.04	1471.
30	5.65	32.78	30	25.87	214.8	0.64	0.10	1471.
50	5.63	32.79	50	25.88	213.9	1.07	0.27	1471.
75	5.61	32.79	75	25.88	214.0	1.61	0.61	1472.
100	5.58	32.80	99	25.89	213.3	2.14	1.09	1472.
125	4.36	33.39	124	26.49	156.0	2.61	1.62	1468.
150	4.48	33.70	149	26.73	133.8	2.97	2.13	1470.
175	4.36	33.80	174	26.82	125.9	3.29	2.66	1470.
200	4.13	33.83	199	26.87	121.2	3.60	3.25	1469.
225	3.97	33.86	223	26.91	117.3	3.90	3.89	1469.
250	3.92	33.90	248	26.94	114.2	4.19	4.59	1469.
300	3.89	33.95	298	26.99	110.6	4.75	6.17	1470.


TEMPERATURE, C
0
4
8
12
16
0
60
120
180
240
300
PRESSURE, DB
REF. NO. 78 - 1 - 14
50-0.0 N 145-0.0 W
MO.-1 DAY-15 GMT-17.2
31
32
33
34
35
SALINITY, O/OO

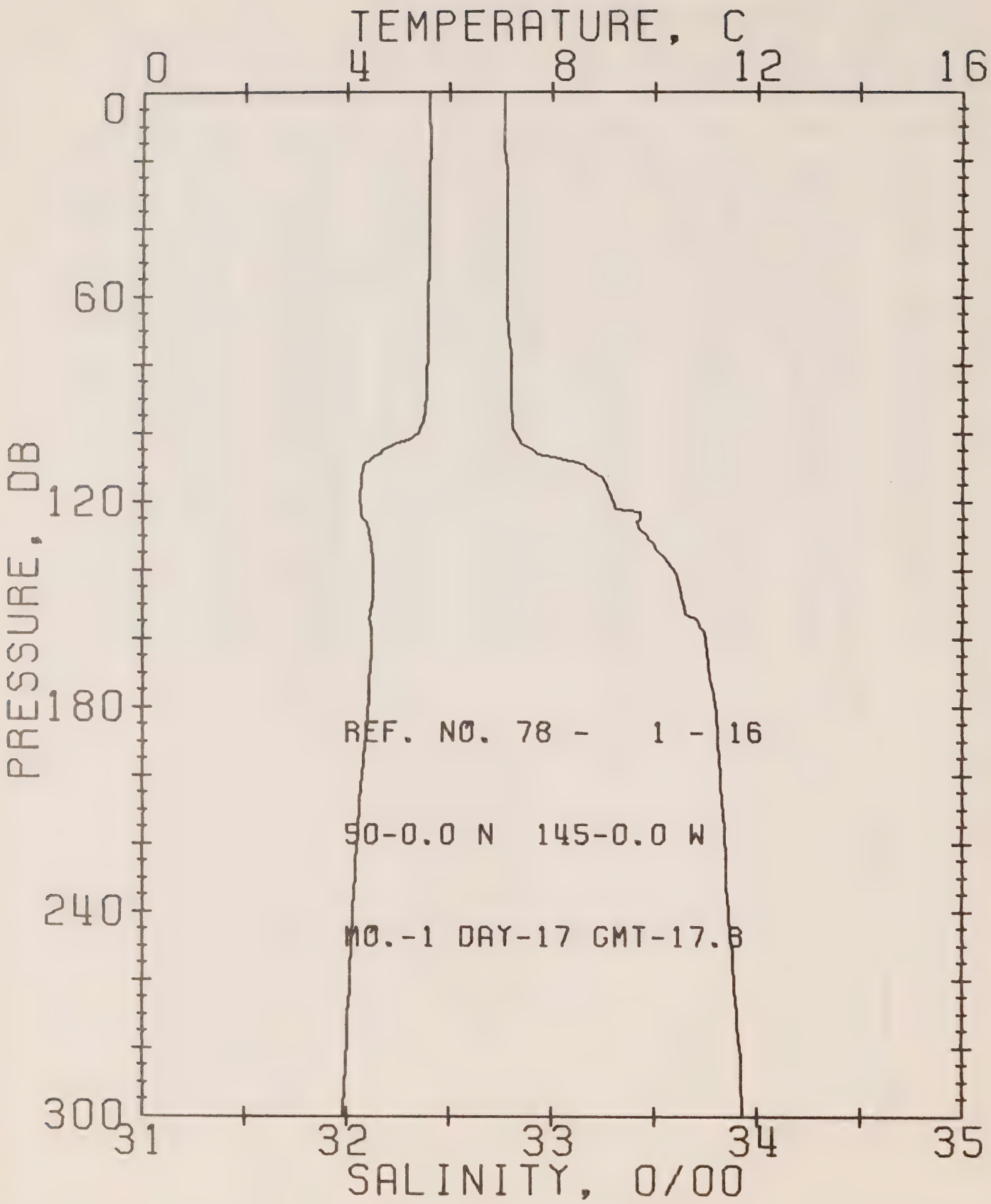
OFFSHORE OCEANOGRAPHY GROUP
REFERENCE NO. 78- 1- 14 DATE 15/ 1/78 STATION P
POSITION 50- 0.0N. 145- 0.0W GMT 17.2
RESULTS OF STP CAST 93 POINTS TAKEN FROM ANALOG TRACE

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.72	32.78	0	25.86	215.0	0.0	0.0	1471.
10	5.72	32.78	10	25.86	215.3	0.22	0.01	1471.
20	5.72	32.78	20	25.86	215.1	0.43	0.04	1471.
30	5.72	32.79	30	25.87	214.8	0.65	0.10	1472.
50	5.69	32.79	50	25.87	214.7	1.07	0.27	1472.
75	5.56	32.79	75	25.89	213.4	1.61	0.61	1472.
100	5.54	32.80	99	25.90	212.7	2.14	1.09	1472.
125	4.33	33.31	124	26.43	161.6	2.63	1.65	1468.
150	4.37	33.66	149	26.71	136.0	3.00	2.16	1469.
175	4.36	33.82	174	26.84	124.1	3.32	2.70	1470.
200	4.14	33.84	199	26.87	120.5	3.63	3.28	1469.
225	4.02	33.87	223	26.91	117.5	3.93	3.93	1469.
250	3.93	33.91	248	26.95	113.9	4.22	4.63	1469.
300	3.87	33.95	298	26.99	110.4	4.78	6.20	1470.


TEMPERATURE, C
0
4
8
12
16
0
300
600
900
1200
1500
PRESSURE, DB
REF. NO. 78 - 1 - 15
50-0.0 N 145-0.0 W
MO.-1 DAY-16 GMT-17.3
31
32
33
34
35
SALINITY, O/OO

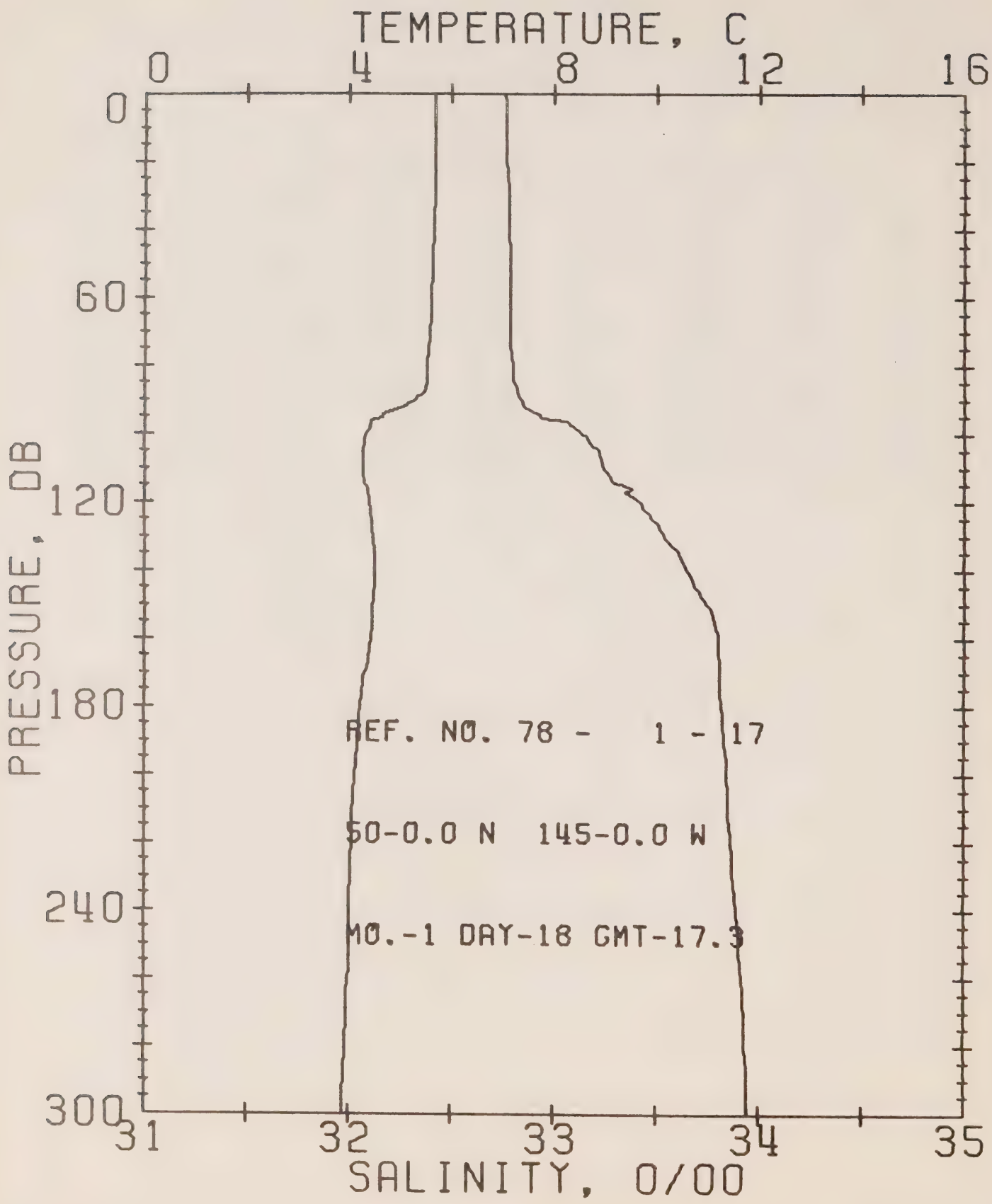
OFFSHORE OCEANOGRAPHY GROUP
REFERENCE NO. 78- 1- 15 DATE 16/ 1/78 STATION P
POSITION 50- 0.0N, 145- 0.0W GMT 17.3
RESULTS OF STP CAST 151 POINTS TAKEN FROM ANALOG TRACE

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.73	32.78	0	25.86	215.1	0.0	0.0	1471.
10	5.73	32.78	10	25.86	215.3	0.22	0.01	1471.
20	5.73	32.79	20	25.87	214.8	0.43	0.04	1471.
30	5.73	32.79	30	25.87	214.9	0.65	0.10	1472.
50	5.69	32.80	50	25.88	213.9	1.07	0.27	1472.
75	5.61	32.80	75	25.89	213.2	1.61	0.61	1472.
100	5.36	32.85	99	25.96	207.0	2.14	1.09	1471.
125	4.39	33.42	124	26.52	153.7	2.57	1.58	1468.
150	4.37	33.66	149	26.71	136.0	2.93	2.08	1469.
175	4.44	33.79	174	26.80	127.2	3.26	2.63	1470.
200	4.25	33.83	199	26.86	122.3	3.57	3.22	1470.
225	4.13	33.85	223	26.88	119.9	3.87	3.88	1470.
250	4.07	33.89	248	26.92	116.5	4.17	4.59	1470.
300	3.90	33.94	298	26.98	111.4	4.74	6.18	1470.
400	3.72	34.07	397	27.10	100.5	5.79	9.95	1471.
500	3.63	34.17	496	27.19	92.7	6.75	14.37	1472.
600	3.44	34.26	595	27.28	85.0	7.64	19.31	1473.
800	3.11	34.37	793	27.39	75.1	9.25	30.73	1475.
1000	2.83	34.45	990	27.49	66.9	10.66	43.62	1478.
1200	2.59	34.51	1188	27.55	61.3	11.94	57.98	1480.
1500	2.36	34.57	1483	27.62	55.8	13.68	81.90	1484.


TEMPERATURE, C
0
4
8
12
16
0
60
120
180
240
300
PRESSURE, DB
REF. NO. 78 - 1 - 16
90-0.0 N 145-0.0 W
MO.-1 DAY-17 GMT-17.8
31
32
33
34
35
SALINITY, O/OO

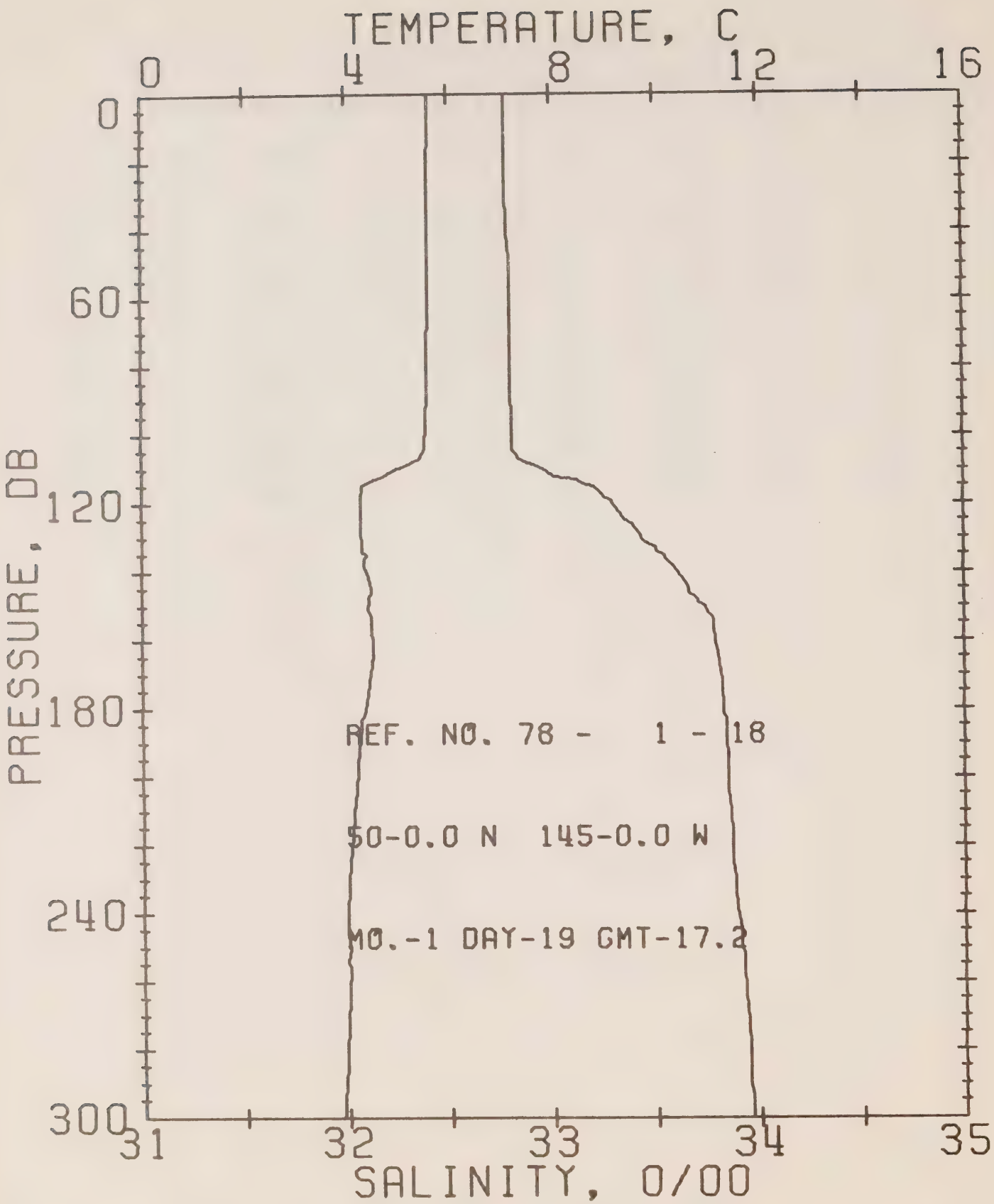
OFFSHORE OCEANOGRAPHY GROUP
REFERENCE NO. 78- 1- 16 DATE 17/ 1/78 STATION P
POSITION 50- 0.0N, 145- 0.0W GMT 17.3
RESULTS OF STP CAST 83 POINTS TAKEN FROM ANALOG TRACE

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.61	32.77	0	25.86	214.5	0.0	0.0	1471.
10	5.62	32.77	10	25.86	214.9	0.21	0.01	1471.
20	5.61	32.77	20	25.87	214.6	0.43	0.04	1471.
30	5.61	32.78	30	25.87	214.2	0.64	0.10	1471.
50	5.59	32.78	50	25.87	214.3	1.07	0.27	1471.
75	5.56	32.80	75	25.89	213.0	1.61	0.61	1472.
100	5.38	32.82	99	25.93	209.4	2.14	1.09	1471.
125	4.33	33.43	124	26.53	152.6	2.58	1.59	1468.
150	4.48	33.64	149	26.68	138.6	2.94	2.10	1469.
175	4.42	33.78	174	26.80	127.6	3.27	2.64	1470.
200	4.29	33.82	199	26.84	123.6	3.58	3.24	1470.
225	4.17	33.85	223	26.88	120.3	3.89	3.90	1470.
250	4.08	33.87	248	26.91	117.8	4.19	4.62	1470.
300	3.92	33.93	298	26.97	112.4	4.76	6.23	1470.


TEMPERATURE, C
0
4
8
12
16
0
60
120
180
240
300
PRESSURE, DB
REF. NO. 78 - 1 - 17
50-0.0 N 145-0.0 W
MO.-1 DAY-18 GMT-17.3
31
32
33
34
35
SALINITY, O/OO

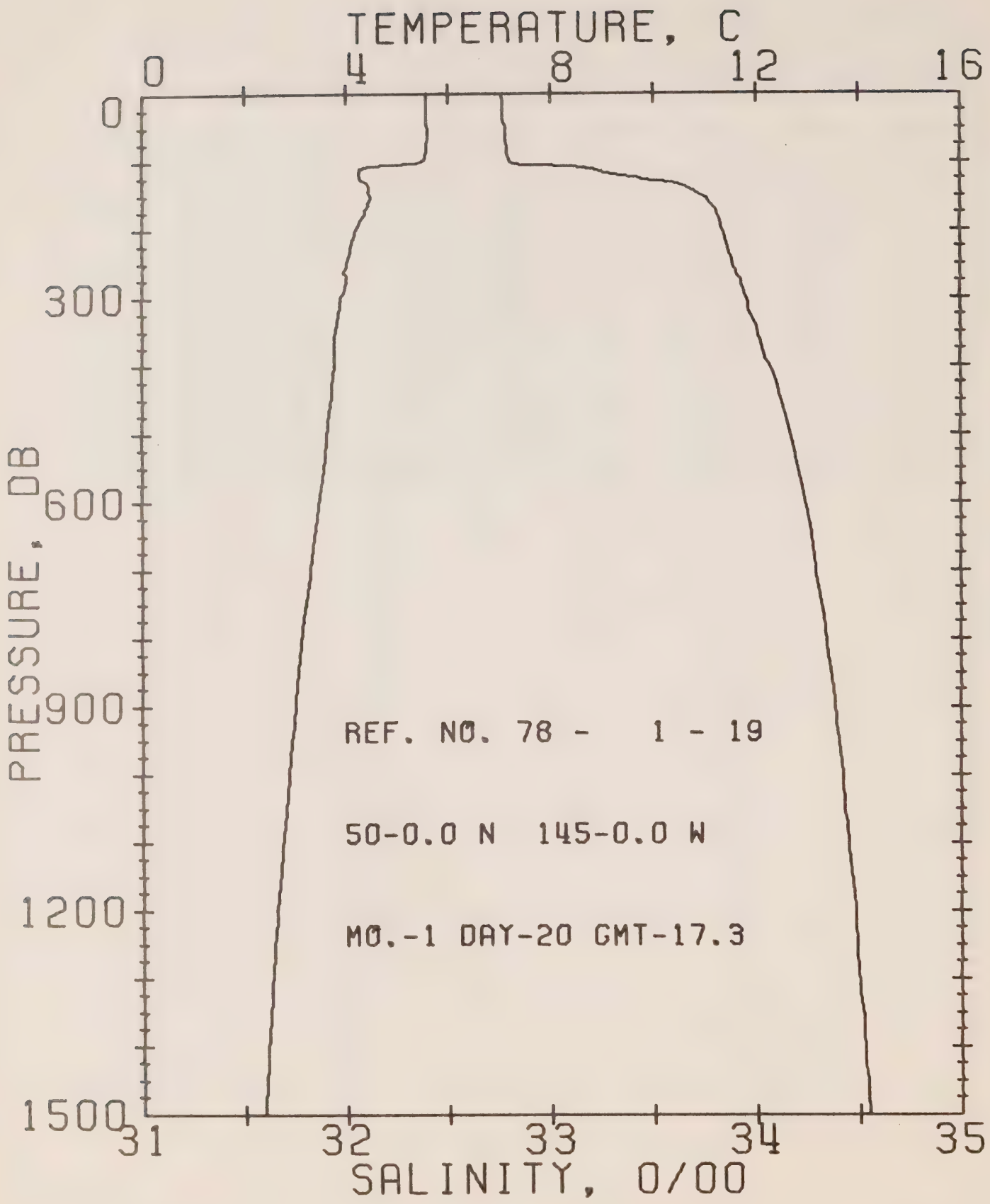
OFFSHORE OCEANOGRAPHY GROUP
REFERENCE NO. 78- 1- 17 DATE 18/ 1/78 STATION P
POSITION 50- 0.0N. 145- 0.0W GMT 17.3
RESULTS OF STP CAST 85 POINTS TAKEN FROM ANALOG TRACE

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.68	32.76	0	25.85	216.1	0.0	0.0	1471.
10	5.67	32.77	10	25.86	215.5	0.22	0.01	1471.
20	5.68	32.77	20	25.86	215.6	0.43	0.04	1471.
30	5.67	32.78	30	25.87	215.0	0.65	0.10	1471.
50	5.62	32.79	50	25.88	213.8	1.08	0.27	1471.
75	5.54	32.79	75	25.89	213.2	1.61	0.61	1472.
100	4.33	33.14	99	26.30	174.3	2.12	1.06	1467.
125	4.44	33.48	124	26.56	149.7	2.52	1.53	1469.
150	4.47	33.75	149	26.77	130.5	2.87	2.02	1470.
175	4.25	33.81	174	26.84	123.7	3.19	2.54	1469.
200	4.10	33.84	199	26.88	120.1	3.49	3.12	1469.
225	4.03	33.87	223	26.91	117.4	3.79	3.76	1469.
250	4.00	33.90	248	26.94	115.0	4.08	4.47	1469.
300	3.87	33.94	298	26.98	111.1	4.64	6.04	1470.


TEMPERATURE, C
0
4
8
12
16
0
60
120
180
240
300
PRESSURE, DB
REF. NO. 78 - 1 - 18
50-0.0 N 145-0.0 W
MO.-1 DAY-19 GMT-17.2
31
32
33
34
35
SALINITY, O/OO

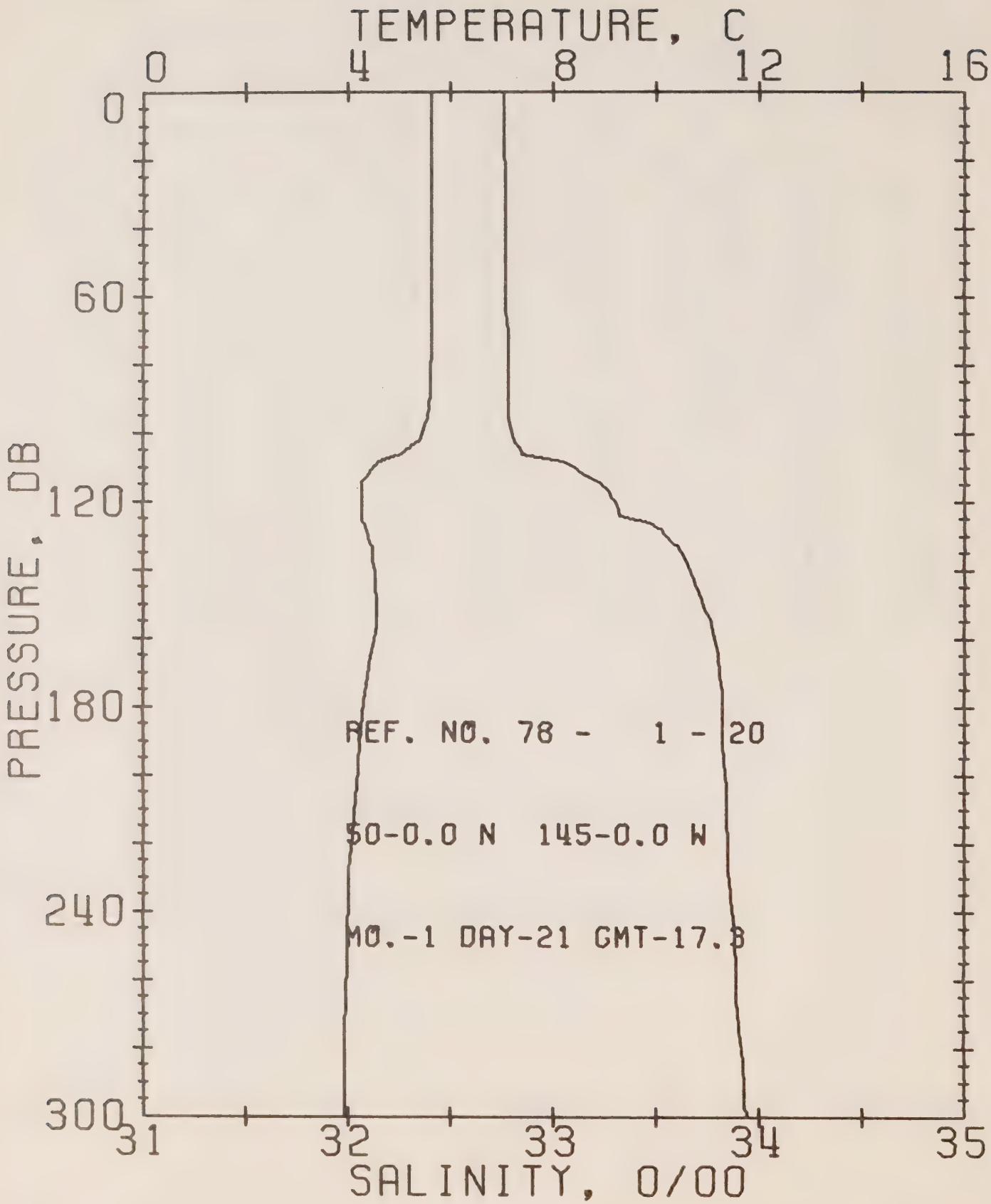
OFFSHORE OCEANOGRAPHY GROUP
REFERENCE NO. 78- 1- 18 DATE 19/ 1/78 STATION P
POSITION 50- 0.0N, 145- 0.0W GMT 17.2
RESULTS OF STP CAST 97 POINTS TAKEN FROM ANALOG TRACE

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.63	32.78	0	25.87	214.0	0.0	0.0	1471.
10	5.62	32.78	10	25.87	214.2	0.21	0.01	1471.
20	5.61	32.78	20	25.87	214.1	0.43	0.04	1471.
30	5.61	32.78	30	25.87	214.2	0.64	0.10	1471.
50	5.60	32.80	50	25.89	212.9	1.07	0.27	1471.
75	5.58	32.80	75	25.89	212.9	1.60	0.61	1472.
100	5.52	32.81	99	25.91	211.8	2.13	1.09	1472.
125	4.27	33.37	124	26.49	156.6	2.60	1.61	1468.
150	4.41	33.74	149	26.77	130.4	2.95	2.11	1469.
175	4.40	33.82	174	26.83	124.6	3.27	2.64	1470.
200	4.17	33.85	199	26.88	120.2	3.58	3.22	1469.
225	4.03	33.87	223	26.91	117.4	3.87	3.86	1469.
250	4.02	33.91	248	26.94	114.5	4.16	4.56	1470.
300	3.88	33.96	298	27.00	109.8	4.72	6.13	1470.


TEMPERATURE, C
0
4
8
12
16
0
300
600
900
1200
1500
PRESSURE, DB
REF. NO. 78 - 1 - 19
50-0.0 N 145-0.0 W
MO.-1 DAY-20 GMT-17.3
31
32
33
34
35
SALINITY, O/OO

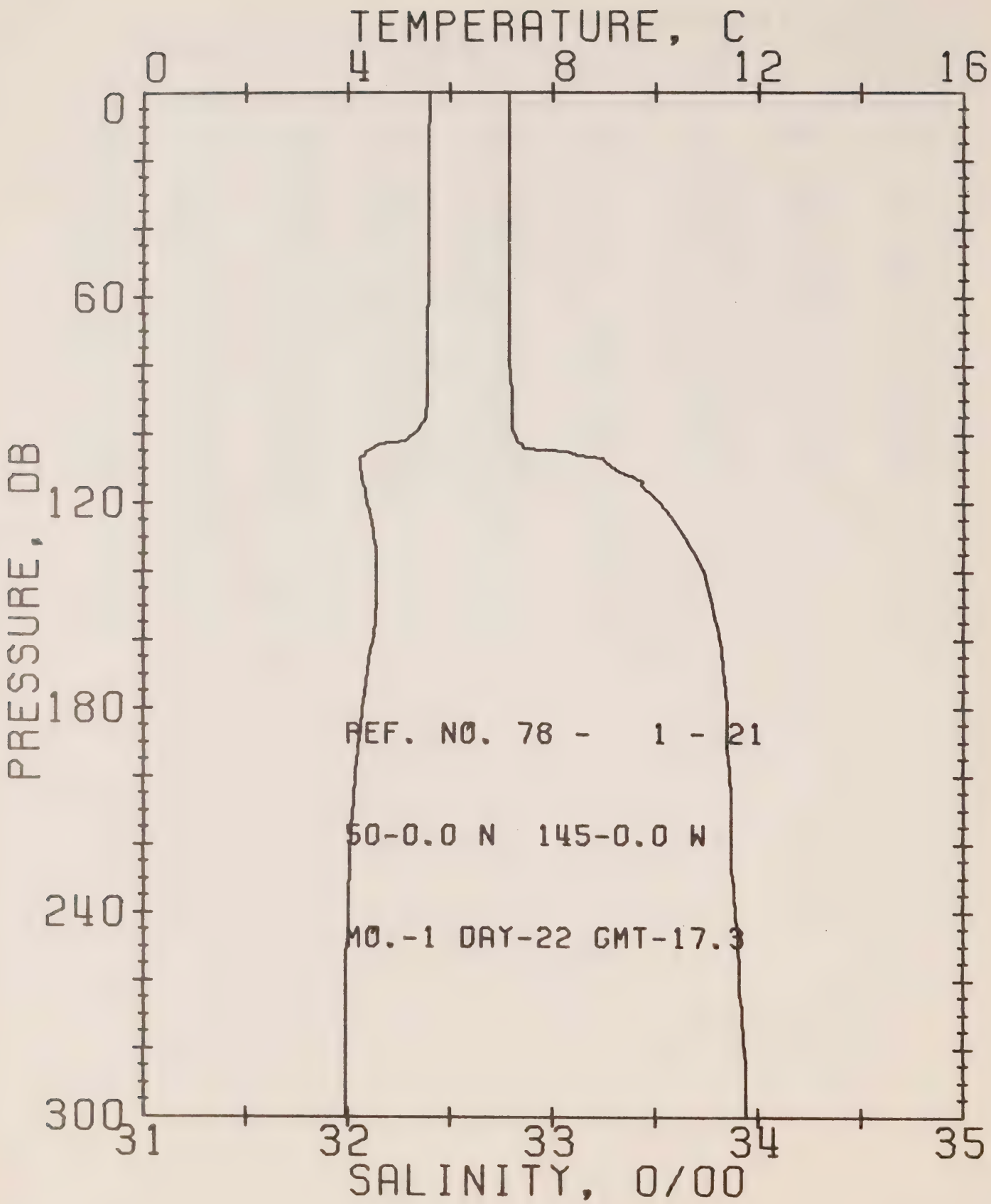
OFFSHORE OCEANOGRAPHY GROUP
REFERENCE NO. 78- 1- 19 DATE 20/ 1/78 STATION P
POSITION 50- 0.0N, 145- 0.0W GMT 17.3
RESULTS OF STP CAST 142 POINTS TAKEN FROM ANALOG TRACE

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.56	32.77	0	25.87	213.9	0.0	0.0	1470.
10	5.56	32.77	10	25.87	214.5	0.21	0.01	1471.
20	5.57	32.77	20	25.87	214.5	0.43	0.04	1471.
30	5.57	32.77	30	25.87	214.6	0.64	0.10	1471.
50	5.59	32.78	50	25.87	214.3	1.07	0.27	1471.
75	5.58	32.78	75	25.88	214.2	1.61	0.61	1472.
100	5.49	32.80	99	25.90	212.2	2.14	1.09	1472.
125	4.29	33.44	124	26.54	151.5	2.58	1.59	1468.
150	4.47	33.74	149	26.76	131.1	2.92	2.07	1470.
175	4.36	33.81	174	26.83	124.8	3.24	2.60	1470.
200	4.19	33.83	199	26.86	121.7	3.55	3.19	1469.
225	4.08	33.86	223	26.90	118.7	3.85	3.84	1469.
250	4.00	33.88	248	26.92	116.2	4.14	4.55	1469.
300	3.90	33.95	298	26.99	110.7	4.71	6.14	1470.
400	3.76	34.06	397	27.09	101.7	5.77	9.92	1471.
500	3.62	34.16	496	27.18	93.3	6.75	14.37	1472.
600	3.46	34.24	595	27.26	87.0	7.65	19.42	1473.
800	3.11	34.34	793	27.37	77.0	9.28	31.05	1475.
1000	2.86	34.42	990	27.46	69.7	10.75	44.47	1478.
1200	2.62	34.48	1188	27.53	63.8	12.09	59.45	1480.
1500	2.36	34.55	1483	27.61	57.3	13.91	84.43	1484.


TEMPERATURE, C
0
4
8
12
16
0
60
120
180
240
300
PRESSURE, DB
REF. NO. 78 - 1 - 20
50-0.0 N 145-0.0 W
MO.-1 DAY-21 GMT-17.3
31
32
33
34
35
SALINITY, O/OO

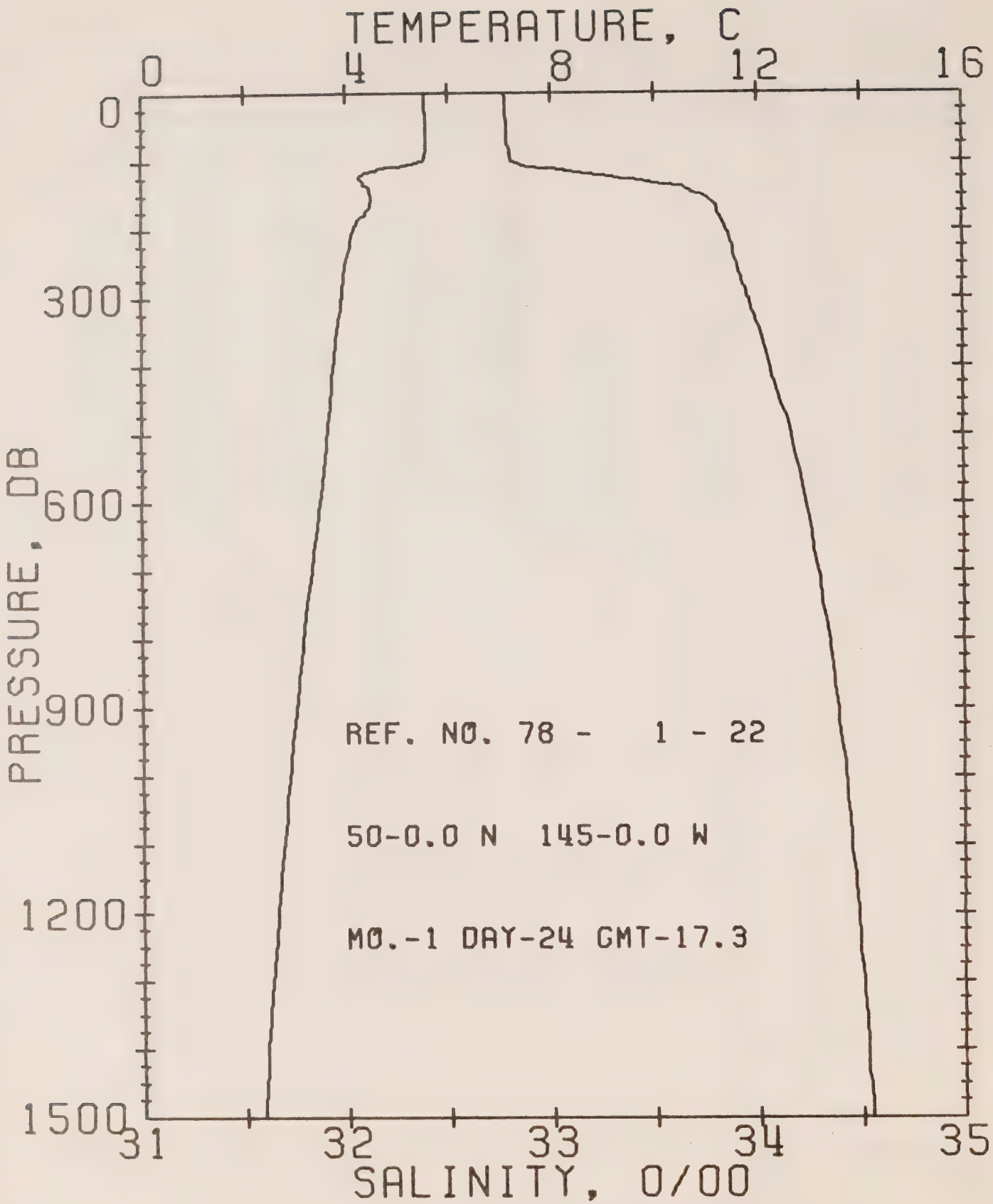
OFFSHORE OCEANOGRAPHY GROUP
REFERENCE NO. 78- 1- 20 DATE 21/ 1/78 STATION P
POSITION 50- 0.0N, 145- 0.0W GMT 17.3
RESULTS OF STP CAST 77 POINTS TAKEN FROM ANALOG TRACE

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.64	32.76	0	25.85	215.6	0.0	0.0	1471.
10	5.63	32.76	10	25.85	215.8	0.22	0.01	1471.
20	5.63	32.76	20	25.86	215.6	0.43	0.04	1471.
30	5.63	32.77	30	25.86	215.2	0.65	0.10	1471.
50	5.63	32.77	50	25.86	215.5	1.08	0.27	1471.
75	5.62	32.78	75	25.87	214.9	1.62	0.62	1472.
100	5.44	32.80	99	25.91	211.6	2.15	1.10	1472.
125	4.28	33.41	124	26.52	153.6	2.60	1.61	1468.
150	4.56	33.72	149	26.74	133.1	2.95	2.09	1470.
175	4.32	33.82	174	26.84	123.9	3.27	2.62	1469.
200	4.17	33.83	199	26.87	121.2	3.58	3.21	1469.
225	4.03	33.85	223	26.89	118.9	3.88	3.86	1469.
250	3.98	33.88	248	26.92	116.3	4.17	4.57	1469.
300	3.93	33.94	298	26.98	111.8	4.74	6.17	1470.


TEMPERATURE, C
0
4
8
12
16
0
60
120
180
240
300
PRESSURE, DB
REF. NO. 78 - 1 - 21
50-0.0 N 145-0.0 W
MO.-1 DAY-22 GMT-17.3
31
32
33
34
35
SALINITY, O/OO

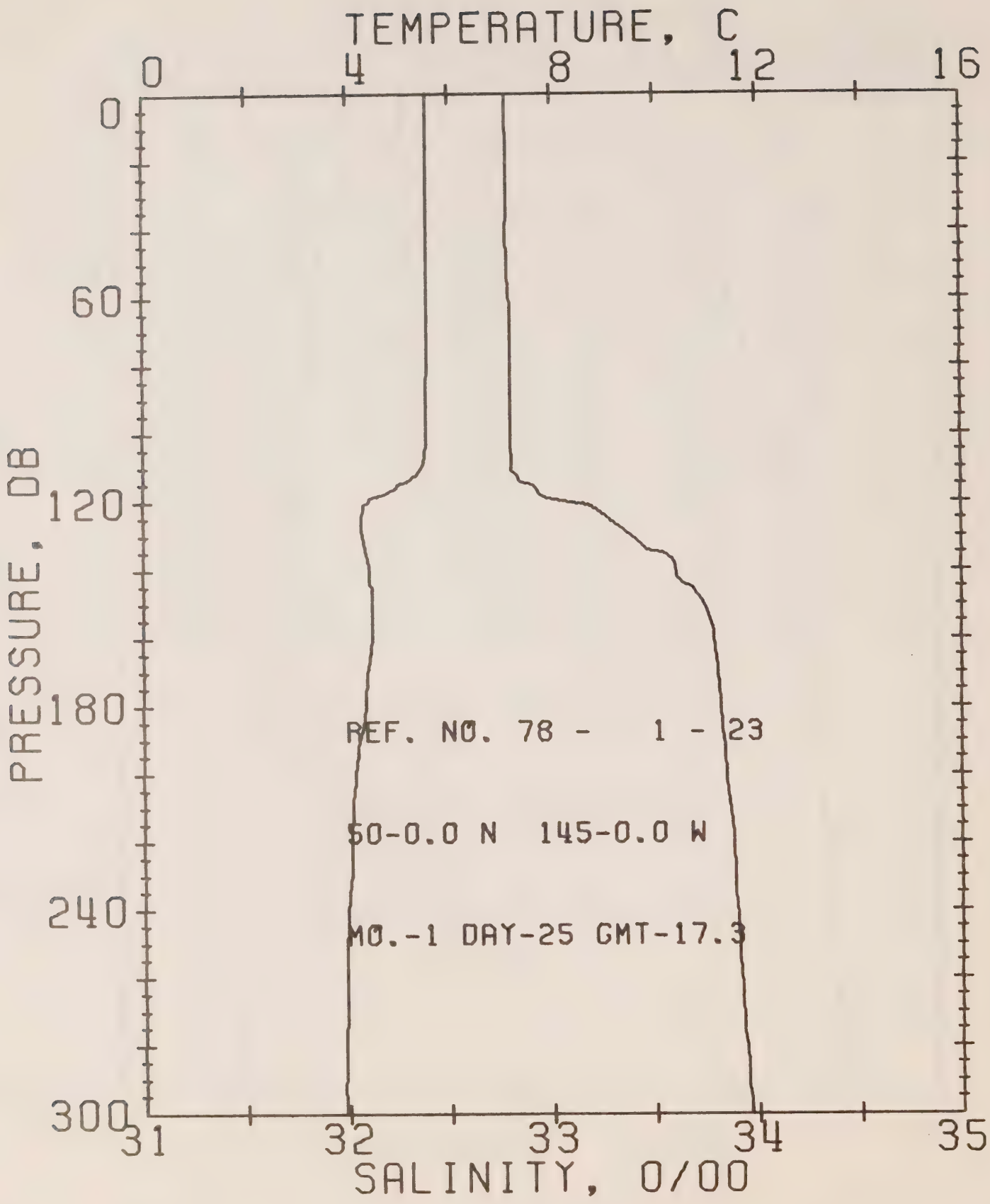
OREGON STATE UNIVERSITY OCEANOGRAPHY GROUP
REFERENCE NO. 78- 1- 21 DATE 22/ 1/78 STATION P
POSITION 50- 0.0N, 145- 0.0W GMT 17.3
RESULTS OF STD CAST 83 POINTS TAKEN FROM ANALOG TRACE

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.59	32.79	0	25.88	212.8	0.0	0.0	1470.
10	5.58	32.79	10	25.88	213.0	0.21	0.01	1471.
20	5.58	32.79	20	25.88	213.1	0.43	0.04	1471.
30	5.58	32.79	30	25.88	213.2	0.64	0.10	1471.
50	5.56	32.79	50	25.89	213.2	1.07	0.27	1471.
75	5.55	32.79	75	25.89	213.3	1.60	0.61	1472.
100	5.23	32.81	99	25.93	209.0	2.13	1.09	1471.
125	4.48	33.59	124	26.64	142.2	2.54	1.55	1469.
150	4.35	33.78	149	26.78	129.2	2.88	2.02	1470.
175	4.32	33.84	174	26.86	122.2	3.19	2.54	1469.
200	4.12	33.86	199	26.89	118.9	3.49	3.12	1469.
225	4.03	33.87	223	26.91	117.3	3.78	3.75	1469.
250	3.97	33.90	248	26.94	114.7	4.07	4.45	1469.
300	3.94	33.94	298	26.97	111.9	4.64	6.04	1470.


TEMPERATURE, C
0
4
8
12
16
0
300
600
900
1200
1500
PRESSURE, DB
REF. NO. 78 - 1 - 22
50-0.0 N 145-0.0 W
MO.-1 DAY-24 GMT-17.3
31
32
33
34
35
SALINITY, O/OO

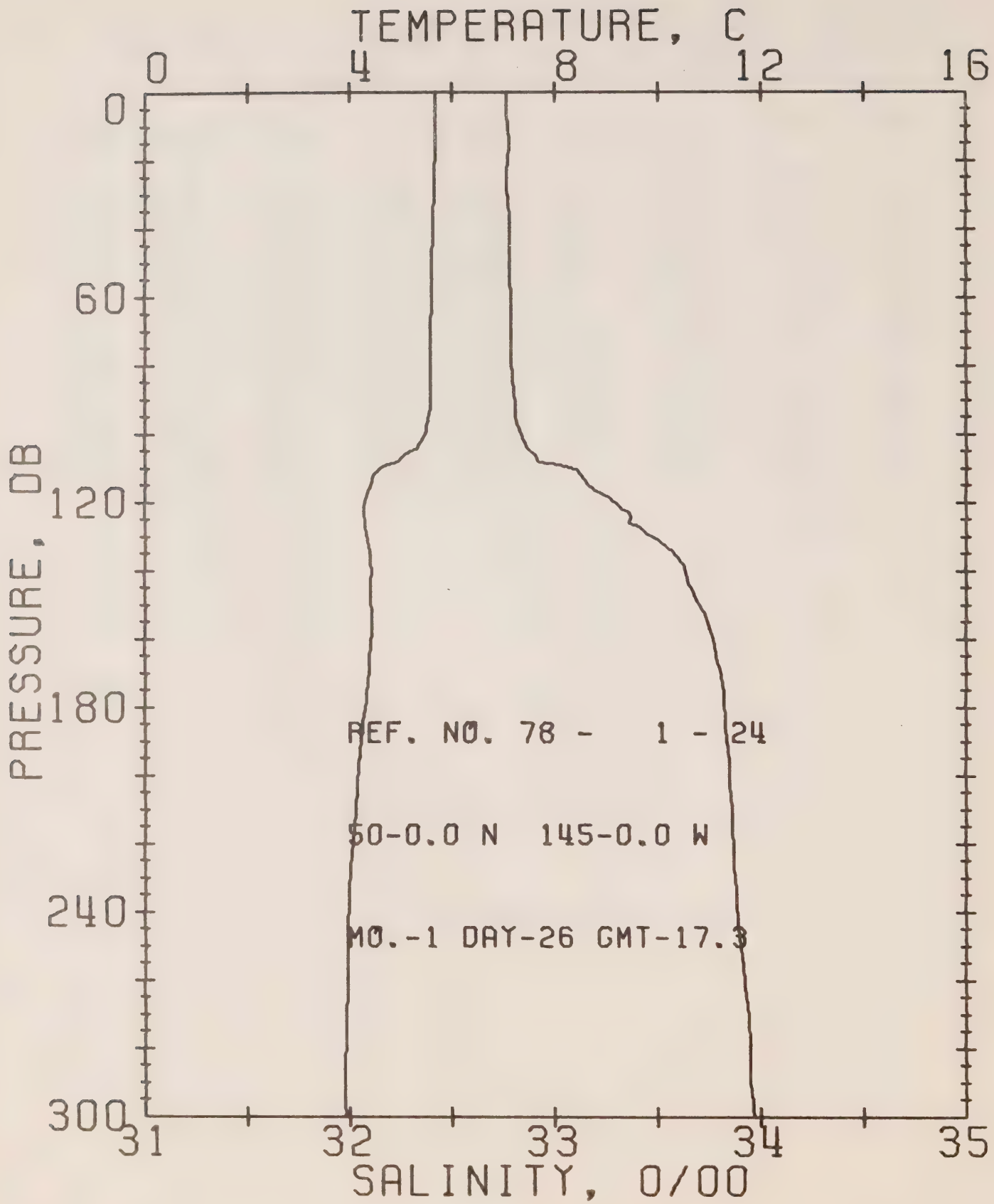
OFFSHORE OCEANOGRAPHY GROUP
REFERENCE NO. 78- 1- 22 DATE 24/ 1/73 STATION P
POSITION 50- 0.0N, 145- 0.0W GMT 17.3
RESULTS OF STD CAST 147 POINTS TAKEN FROM ANALOG TRACE

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.55	32.77	0	25.87	213.2	0.0	0.0	1470.
10	5.55	32.78	10	25.88	213.4	0.21	0.01	1470.
20	5.55	32.75	20	25.88	213.5	0.43	0.04	1471.
30	5.56	32.76	30	25.88	213.7	0.64	0.10	1471.
50	5.55	32.79	50	25.89	213.2	1.07	0.27	1471.
75	5.57	32.79	75	25.88	213.5	1.60	0.61	1472.
100	5.43	32.81	99	25.91	211.3	2.13	1.09	1472.
125	4.27	33.33	124	26.46	159.2	2.60	1.62	1468.
150	4.51	33.73	149	26.75	131.9	2.95	2.11	1470.
175	4.39	33.81	174	26.82	125.2	3.27	2.64	1470.
200	4.13	33.85	199	26.88	120.0	3.58	3.23	1469.
225	4.08	33.88	223	26.91	117.2	3.87	3.87	1469.
250	3.96	33.90	248	26.94	115.0	4.16	4.57	1469.
300	3.91	33.95	298	26.99	110.8	4.73	6.15	1470.
400	3.74	34.06	397	27.09	101.7	5.79	9.92	1471.
500	3.62	34.16	496	27.18	93.6	6.76	14.39	1472.
600	3.47	34.23	595	27.25	87.5	7.67	19.47	1473.
800	3.13	34.35	793	27.38	76.7	9.31	31.16	1475.
1000	2.85	34.42	990	27.46	69.3	10.77	44.53	1478.
1200	2.61	34.48	1188	27.53	63.7	12.11	59.44	1480.
1500	2.34	34.55	1483	27.61	57.0	13.91	84.21	1484.


TEMPERATURE, C
0
4
8
12
16
0
60
120
180
240
300
PRESSURE, DB
REF. NO. 78 - 1 - 23
50-0.0 N 145-0.0 W
MO.-1 DAY-25 GMT-17.3
31
32
33
34
35
SALINITY, O/OO

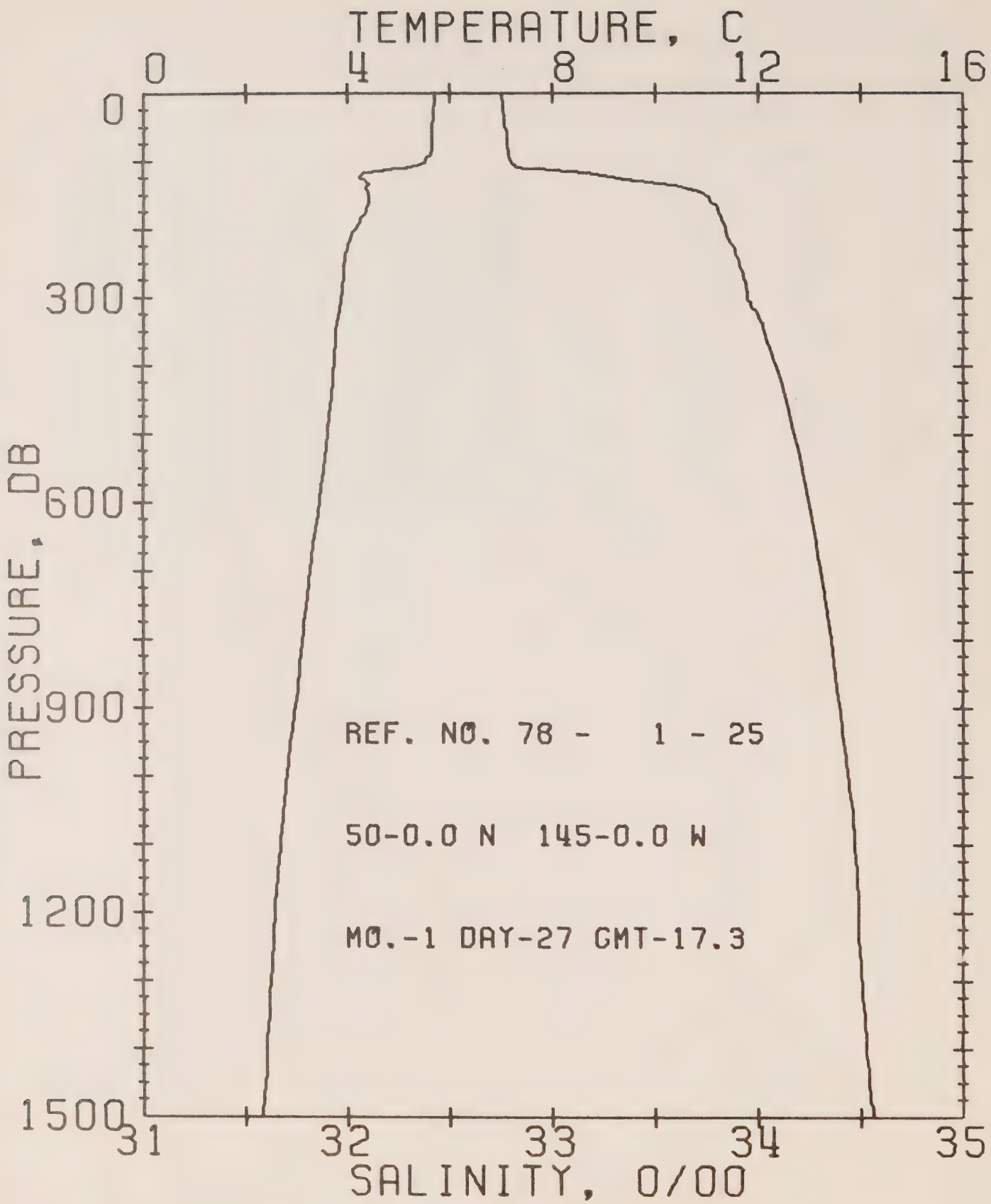
OFFSHORE OCEANOGRAPHY GROUP
REFERENCE NO. 78- 1- 23 DATE 25/ 1/78 STATION P
POSITION 50- 0.0N, 145- 0.0W GMT 17.3
RESULTS OF STP CAST 77 POINTS TAKEN FROM ANALOG TRACE

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.56	32.78	0	25.88	213.2	0.0	0.0	1470.
10	5.56	32.78	10	25.88	213.2	0.21	0.01	1471.
20	5.56	32.79	20	25.89	212.9	0.43	0.04	1471.
30	5.56	32.79	30	25.89	213.0	0.64	0.10	1471.
50	5.56	32.79	50	25.89	213.2	1.07	0.27	1471.
75	5.56	32.80	75	25.89	212.7	1.60	0.61	1472.
100	5.55	32.80	99	25.90	212.8	2.13	1.08	1472.
125	4.27	33.28	124	26.42	163.2	2.63	1.65	1468.
150	4.49	33.74	149	26.76	131.2	2.99	2.16	1470.
175	4.35	33.82	174	26.83	124.4	3.31	2.68	1470.
200	4.13	33.85	199	26.88	119.7	3.61	3.27	1469.
225	4.04	33.88	223	26.92	116.4	3.91	3.91	1469.
250	3.96	33.91	248	26.95	114.0	4.20	4.60	1469.
300	3.91	33.96	298	26.99	110.0	4.76	6.17	1470.


TEMPERATURE, C
0
4
8
12
16
0
60
120
180
240
300
PRESSURE, DB
REF. NO. 78 - 1 - 24
50-0.0 N 145-0.0 W
MO.-1 DAY-26 GMT-17.3
31
32
33
34
35
SALINITY, O/OO

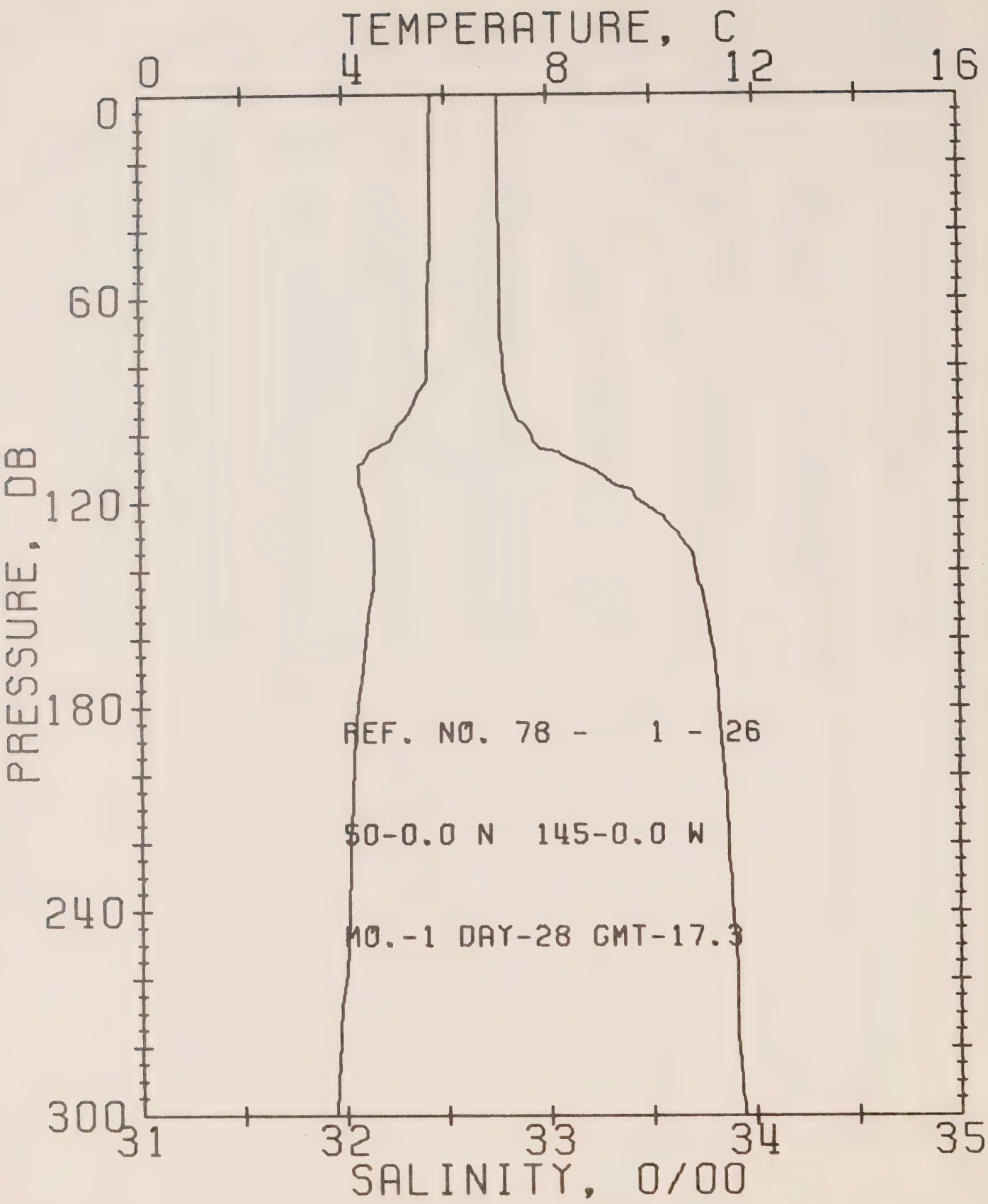
OFFSHORE OCEANOGRAPHY GROUP
REFERENCE NO. 78- 1- 24 DATE 26/ 1/78 STATION P
POSITION 50- 0.0N, 145- 0.0W GMT 17.3
RESULTS OF STP CAST 78 POINTS TAKEN FROM ANALOG TRACE

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	PCT. EN	SOUND
0	5.68	32.77	0	25.86	215.3	0.0	0.0	1471.
10	5.68	32.77	10	25.86	215.2	0.22	0.01	1471.
20	5.66	32.77	20	25.86	215.1	0.43	0.04	1471.
30	5.65	32.77	30	25.86	215.3	0.65	0.10	1471.
50	5.51	32.78	50	25.87	214.5	1.08	0.27	1471.
75	5.53	32.79	75	25.88	213.6	1.61	0.61	1472.
100	5.46	32.84	99	25.94	209.1	2.14	1.09	1472.
125	4.29	33.37	124	26.49	156.7	2.59	1.60	1458.
150	4.41	33.70	149	26.73	133.4	2.95	2.10	1469.
175	4.34	33.82	174	26.84	124.1	3.27	2.63	1470.
200	4.15	33.85	199	26.88	120.0	3.57	3.21	1469.
225	4.02	33.87	223	26.91	117.3	3.87	3.85	1469.
250	3.96	33.90	248	26.94	114.7	4.16	4.56	1469.
300	3.90	33.97	298	27.00	109.1	4.72	6.12	1470.


TEMPERATURE, C
0
4
8
12
16
0
300
600
900
1200
1500
PRESSURE, DB
REF. NO. 78 - 1 - 25
50-0.0 N 145-0.0 W
MO.-1 DAY-27 GMT-17.3
31
32
33
34
35
SALINITY, O/OO

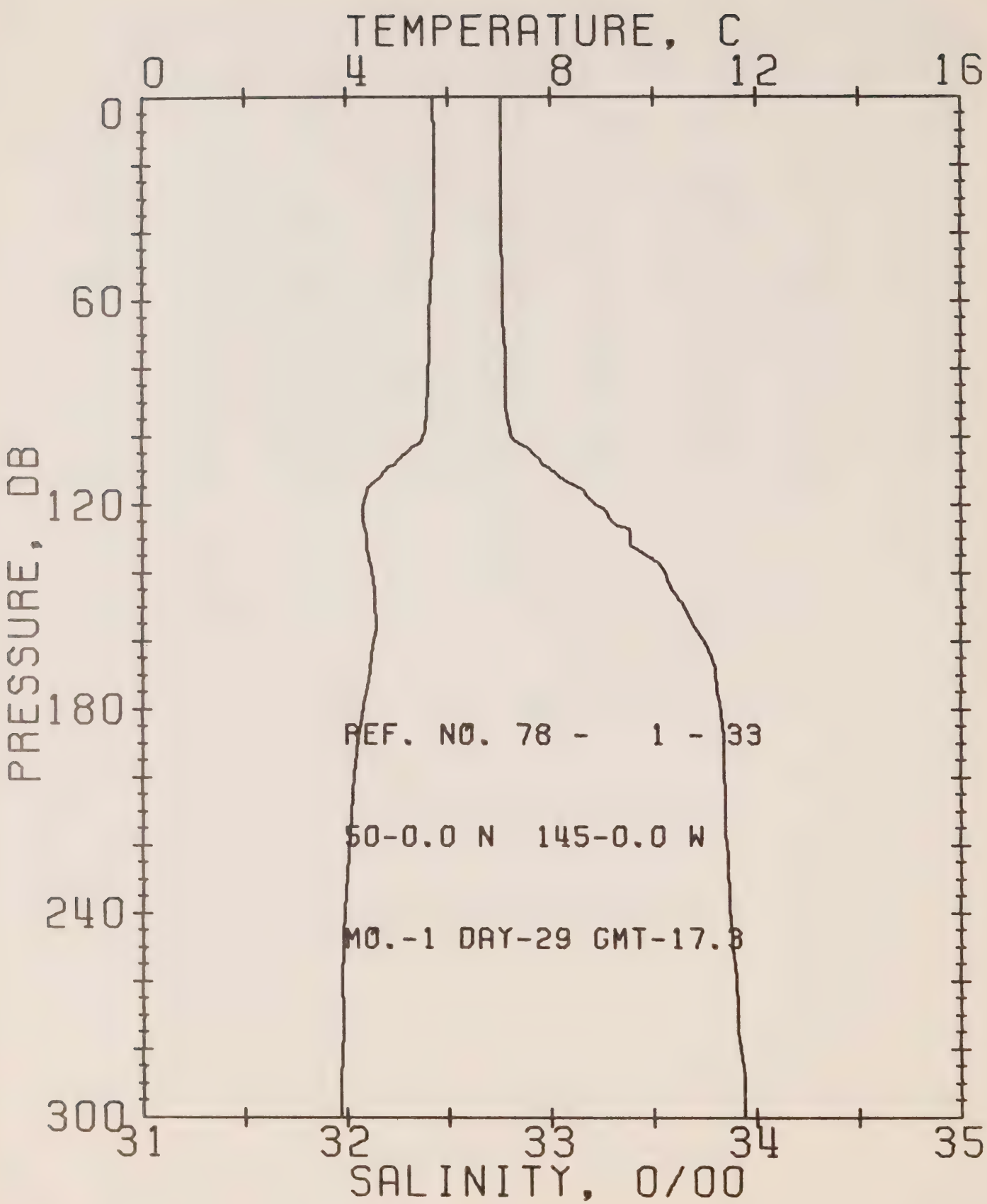
OFFSHORE OCEANOGRAPHY GROUP
REFERENCE NO. 78- 1- 25 DATE 27/ 1/78 STATION P
POSITION 50- 0.0N, 145- 0.0W GMT 17.3
RESULTS OF STP CAST 153 POINTS TAKEN FROM ANALOG TRACE

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	PCT. EN	SOUND
0	5.72	32.75	0	25.84	217.2	0.0	0.0	1471.
10	5.72	32.75	10	25.84	217.4	0.22	0.01	1471.
20	5.69	32.76	20	25.85	216.6	0.43	0.04	1471.
30	5.67	32.76	30	25.85	216.4	0.65	0.10	1471.
50	5.66	32.77	50	25.86	215.8	1.08	0.28	1472.
75	5.65	32.78	75	25.87	215.2	1.62	0.62	1472.
100	5.50	32.80	99	25.90	212.4	2.15	1.10	1472.
125	4.26	33.35	124	26.47	157.9	2.63	1.63	1468.
150	4.43	33.75	149	26.77	130.0	2.98	2.12	1469.
175	4.35	33.81	174	26.83	124.9	3.30	2.65	1470.
200	4.13	33.84	199	26.88	120.4	3.60	3.24	1469.
225	3.99	33.88	223	26.92	116.2	3.90	3.88	1469.
250	3.93	33.91	248	26.95	113.6	4.19	4.57	1469.
300	3.87	33.95	298	26.99	110.4	4.75	6.14	1470.
400	3.72	34.08	397	27.11	99.5	5.79	9.85	1471.
500	3.60	34.17	496	27.19	92.5	6.75	14.24	1472.
600	3.44	34.24	595	27.26	86.3	7.64	19.23	1473.
800	3.09	34.35	793	27.39	75.8	9.26	30.73	1475.
1000	2.79	34.44	990	27.48	67.7	10.69	43.88	1477.
1200	2.57	34.49	1188	27.54	62.4	11.99	58.36	1480.
1500	2.33	34.56	1483	27.62	56.2	13.78	82.97	1484.


TEMPERATURE, C
0
4
8
12
16
0
60
120
180
240
300
PRESSURE, DB
REF. NO. 78 - 1 - 26
50-0.0 N 145-0.0 W
MO.-1 DAY-28 GMT-17.3
31
32
33
34
35
SALINITY, O/OO

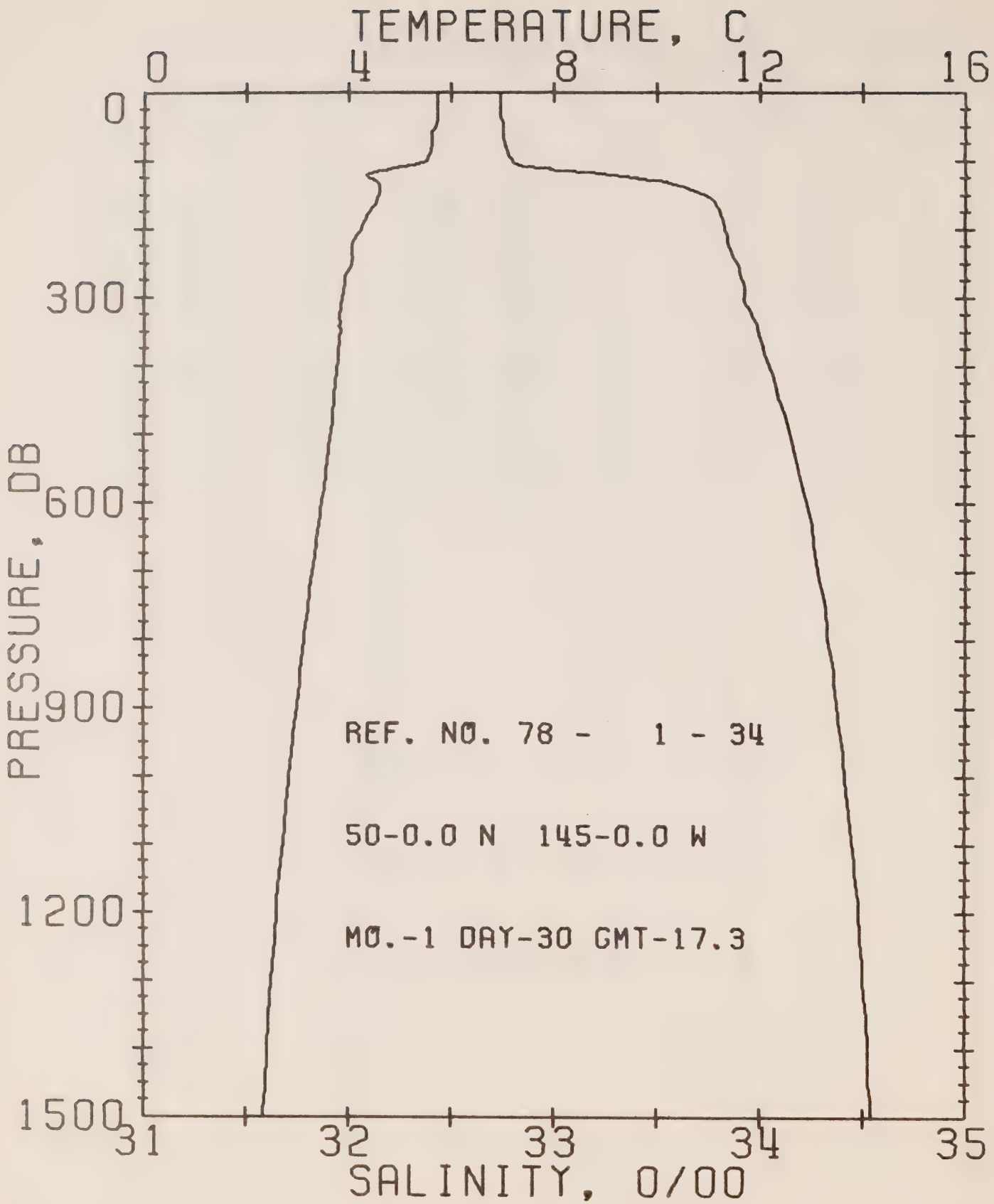
OFFSHORE OCEANOGRAPHY GROUP
REFERENCE NO. 78- 1- 26 DATE 28/ 1/78 STATION P
POSITION 50- 0.0N. 145- 0.0W GMT 17.3
RESULTS OF STP CAST 76 POINTS TAKEN FROM ANALOG TRACE

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.73	32.76	0	25.84	216.6	0.0	0.0	1471.
10	5.72	32.76	10	25.84	216.9	0.22	0.01	1471.
20	5.72	32.76	20	25.84	217.0	0.43	0.04	1471.
30	5.72	32.76	30	25.84	217.1	0.65	0.10	1471.
50	5.68	32.77	50	25.86	216.1	1.08	0.28	1472.
75	5.64	32.78	75	25.86	215.4	1.62	0.62	1472.
100	4.95	32.92	99	26.06	197.5	2.15	1.09	1470.
125	4.51	33.57	124	26.62	144.0	2.57	1.56	1469.
150	4.48	33.76	149	26.77	130.0	2.91	2.04	1470.
175	4.28	33.82	174	26.84	123.5	3.22	2.56	1469.
200	4.15	33.85	199	26.88	120.0	3.53	3.14	1469.
225	4.08	33.87	223	26.91	117.8	3.82	3.78	1469.
250	4.03	33.90	248	26.93	115.4	4.11	4.49	1470.
300	3.80	33.94	298	26.99	110.4	4.68	6.07	1469.


TEMPERATURE, C
0
4
8
12
16
0
60
120
180
240
300
PRESSURE, DB
REF. NO. 78 - 1 - 33
50-0.0 N 145-0.0 W
MO.-1 DAY-29 GMT-17.3
31
32
33
34
35
SALINITY, O/OO

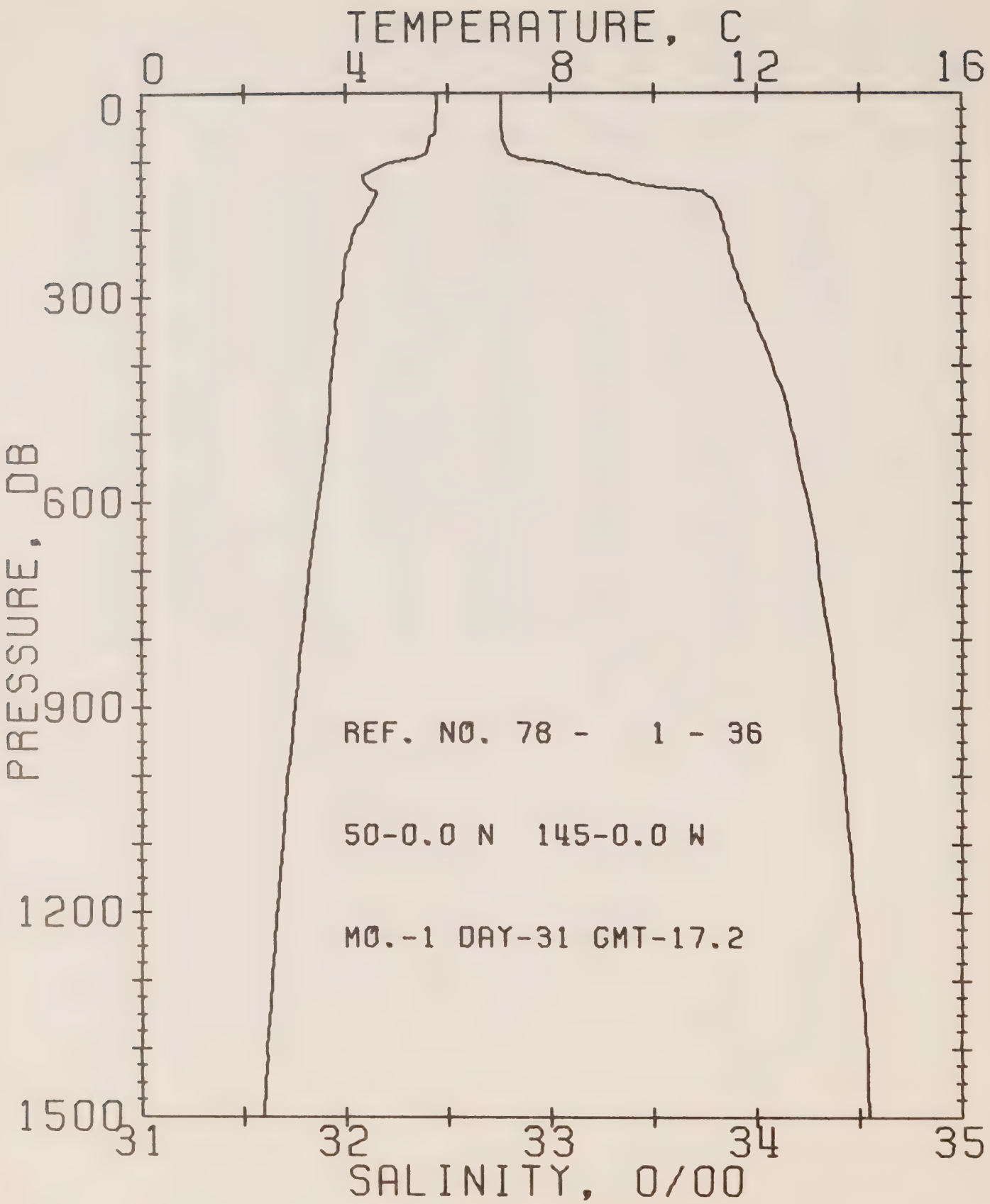
OFFSHORE OCEANOGRAPHY GROUP
REFERENCE NO. 78- 1- 33 DATE 29/ 1/78 STATION P
POSITION 50- 0.0N, 145- 0.0W GMT 17.3
RESULTS OF STP CAST 83 POINTS TAKEN FROM ANALOG TRACE

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.72	32.76	0	25.84	216.5	0.0	0.0	1471.
10	5.73	32.76	10	25.84	216.9	0.22	0.01	1471.
20	5.73	32.76	20	25.84	217.0	0.43	0.04	1471.
30	5.73	32.76	30	25.84	217.1	0.65	0.10	1472.
50	5.67	32.77	50	25.86	215.9	1.08	0.28	1472.
75	5.62	32.78	75	25.87	215.0	1.62	0.62	1472.
100	5.47	32.81	99	25.91	211.4	2.16	1.10	1472.
125	4.33	33.30	124	26.43	162.0	2.62	1.62	1468.
150	4.57	33.55	149	26.68	139.0	2.99	2.14	1470.
175	4.36	33.81	174	26.83	124.9	3.32	2.68	1470.
200	4.13	33.84	199	26.88	120.3	3.62	3.27	1469.
225	4.02	33.86	223	26.90	118.0	3.92	3.91	1469.
250	3.92	33.88	248	26.93	115.8	4.21	4.62	1469.
300	3.88	33.94	298	26.98	111.2	4.78	6.20	1470.


TEMPERATURE, C
0
4
8
12
16
0
300
600
900
1200
1500
PRESSURE, DB
REF. NO. 78 - 1 - 34
50-0.0 N 145-0.0 W
MO.-1 DAY-30 GMT-17.3
31
32
33
34
35
SALINITY, O/OO

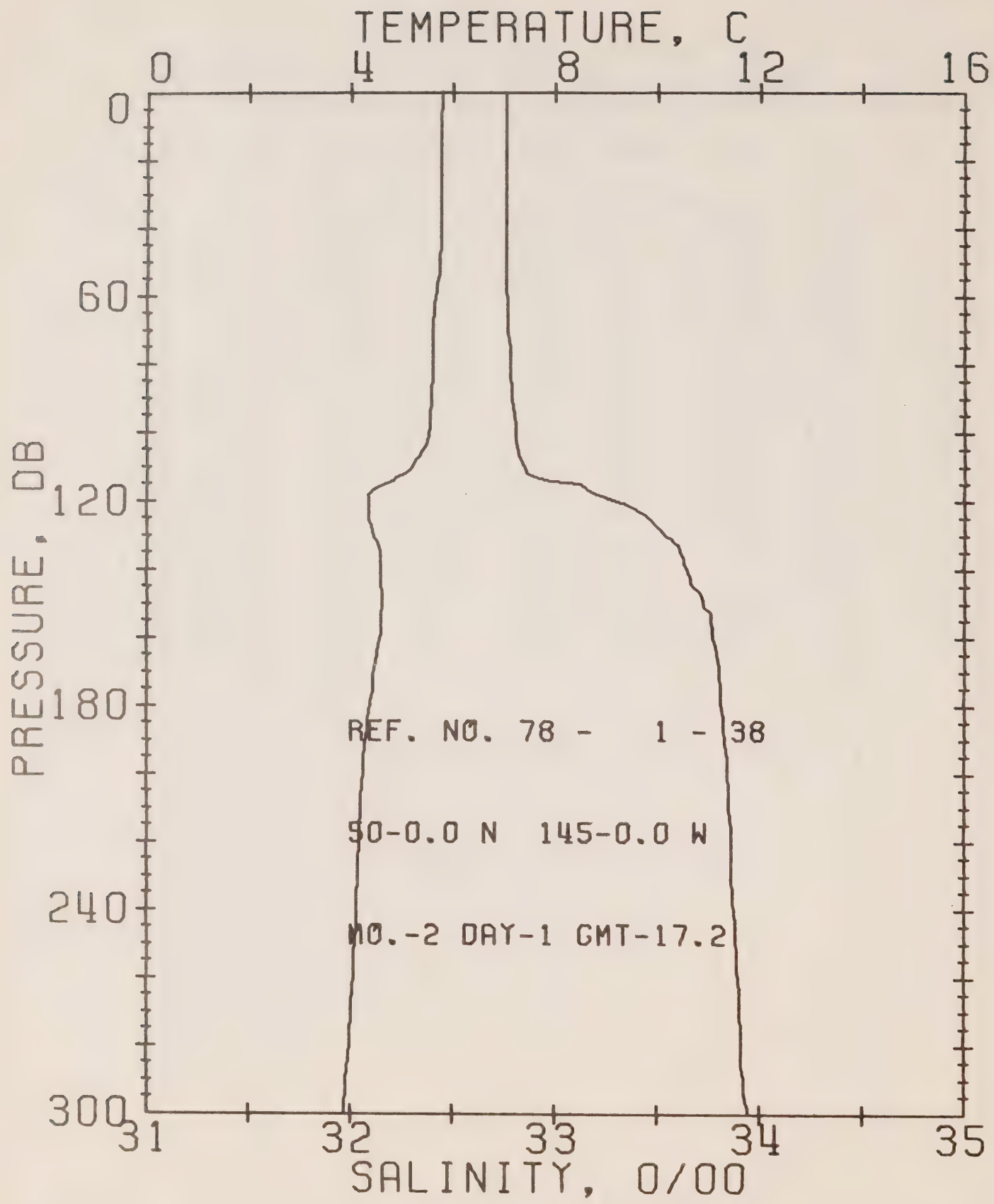
OFFSHORE OCEANOGRAPHY GROUP
REFERENCE NO. 78- 1- 34 DATE 30/ 1/78 STATION P
POSITION 50- 0.0N, 145- 0.0W GMT 17.3
RESULTS OF STP CAST 145 POINTS TAKEN FROM ANALOG TRACE

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.74	32.74	0	25.83	218.2	0.0	0.0	1471.
10	5.73	32.74	10	25.83	218.4	0.22	0.01	1471.
20	5.74	32.74	20	25.83	218.6	0.44	0.04	1471.
30	5.74	32.74	30	25.83	218.7	0.66	0.10	1472.
50	5.70	32.75	50	25.84	217.7	1.09	0.28	1472.
75	5.62	32.76	75	25.85	216.4	1.64	0.62	1472.
100	5.52	32.80	99	25.90	212.5	2.17	1.10	1472.
125	4.44	33.44	124	26.53	153.0	2.64	1.64	1469.
150	4.59	33.73	149	26.74	132.9	3.00	2.13	1470.
175	4.39	33.81	174	26.82	125.2	3.32	2.66	1470.
200	4.22	33.83	199	26.86	122.2	3.63	3.26	1469.
225	4.06	33.85	223	26.89	119.2	3.93	3.91	1469.
250	4.05	33.89	248	26.92	116.4	4.22	4.62	1470.
300	3.87	33.93	298	26.97	111.9	4.79	6.21	1470.
400	3.75	34.04	397	27.07	103.1	5.87	10.04	1471.
500	3.64	34.15	496	27.17	94.9	6.85	14.57	1472.
600	3.47	34.22	595	27.25	88.0	7.77	19.69	1473.
800	3.12	34.33	793	27.37	77.8	9.42	31.40	1475.
1000	2.82	34.41	990	27.46	69.7	10.89	44.85	1477.
1200	2.58	34.48	1188	27.53	63.3	12.21	59.72	1480.
1500	2.33	34.54	1483	27.60	57.7	14.01	84.46	1484.


TEMPERATURE, C
0
4
8
12
16
0
300
600
900
1200
1500
PRESSURE, DB
REF. NO. 78 - 1 - 36
50-0.0 N 145-0.0 W
MO.-1 DAY-31 GMT-17.2
31
32
33
34
35
SALINITY, O/OO

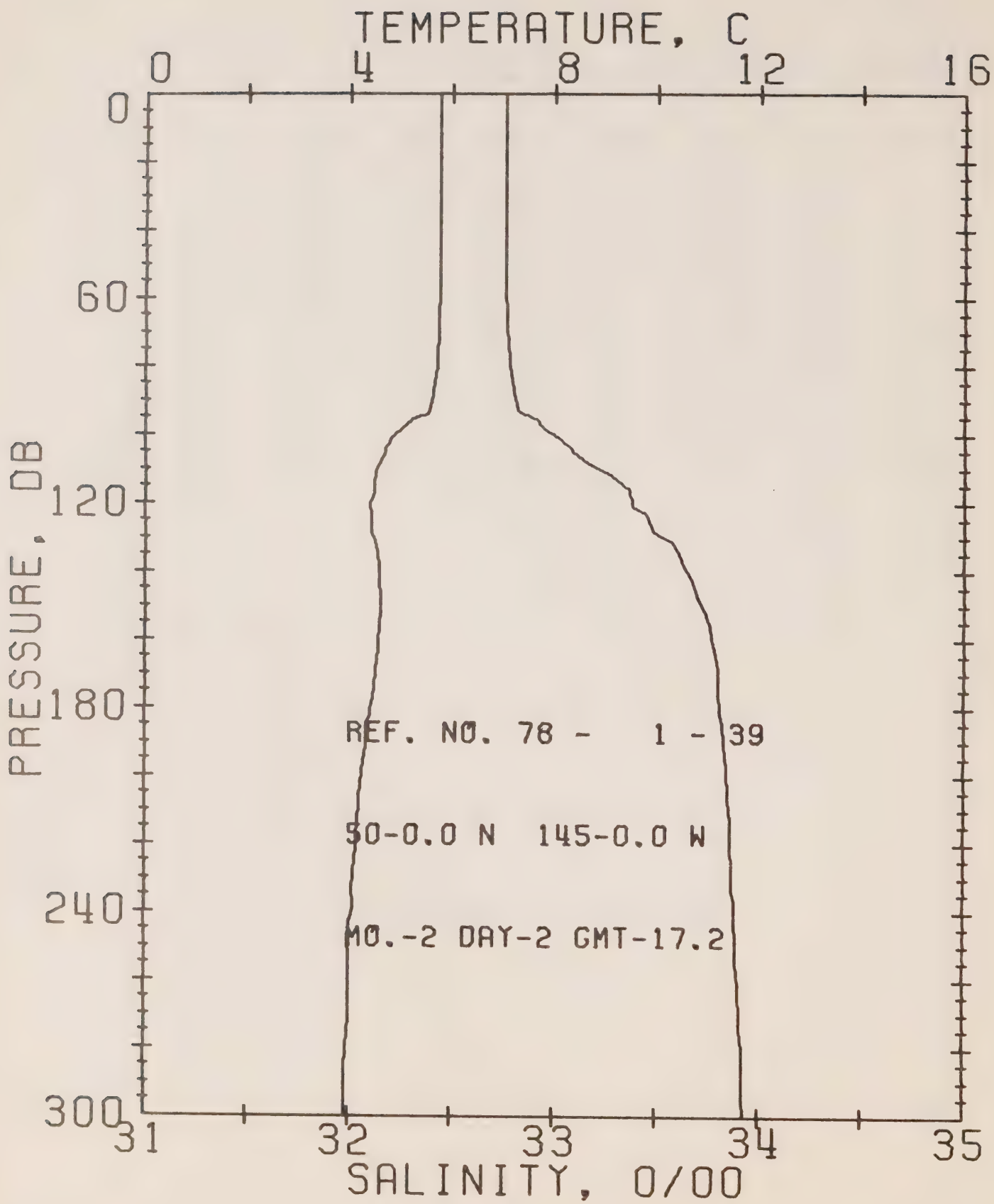
OCEANOGRAPHIC OCEANOGRAPHY GROUP
REFERENCE NO. 74- 1- 36 DATE 31/ 1/74 STATION P
POSITION 50- 0.0N. 145- 0.0W GMT 17.2
RESULTS OF STP CAST 138 POINTS TAKEN FROM ANALOG TRACE

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.77	32.76	0	25.84	217.1	0.0	0.0	1471.
10	5.78	32.76	10	25.84	217.5	0.22	0.01	1471.
20	5.78	32.76	20	25.84	217.6	0.43	0.04	1472.
30	5.77	32.76	30	25.84	217.7	0.65	0.10	1472.
50	5.76	32.76	50	25.84	217.6	1.09	0.28	1472.
75	5.62	32.77	75	25.87	215.4	1.63	0.62	1472.
100	5.04	32.94	99	26.06	196.7	2.16	1.09	1470.
125	4.34	33.33	124	26.45	160.3	2.60	1.60	1468.
150	4.58	33.76	149	26.76	130.8	2.97	2.11	1470.
175	4.41	33.82	174	26.83	124.7	3.28	2.64	1470.
200	4.17	33.84	199	26.87	120.9	3.59	3.22	1469.
225	4.03	33.87	223	26.90	118.0	3.89	3.87	1469.
250	3.97	33.88	248	26.93	115.9	4.18	4.58	1469.
300	3.92	33.94	298	26.98	111.7	4.75	6.17	1470.
400	3.72	34.08	397	27.11	100.1	5.80	9.91	1471.
500	3.62	34.18	496	27.19	92.5	6.76	14.31	1472.
600	3.46	34.25	595	27.27	86.2	7.66	19.32	1473.
800	3.12	34.35	793	27.38	76.2	9.28	30.84	1475.
1000	2.85	34.43	990	27.47	68.9	10.73	44.11	1478.
1200	2.62	34.49	1188	27.53	63.4	12.06	59.03	1480.
1500	2.35	34.55	1483	27.61	57.3	13.86	83.73	1484.


TEMPERATURE, C
0
4
8
12
16
0
60
120
180
240
300
PRESSURE, DB
REF. NO. 78 - 1 - 38
50-0.0 N 145-0.0 W
NO.-2 DAY-1 GMT-17.2
31
32
33
34
35
SALINITY, O/OO

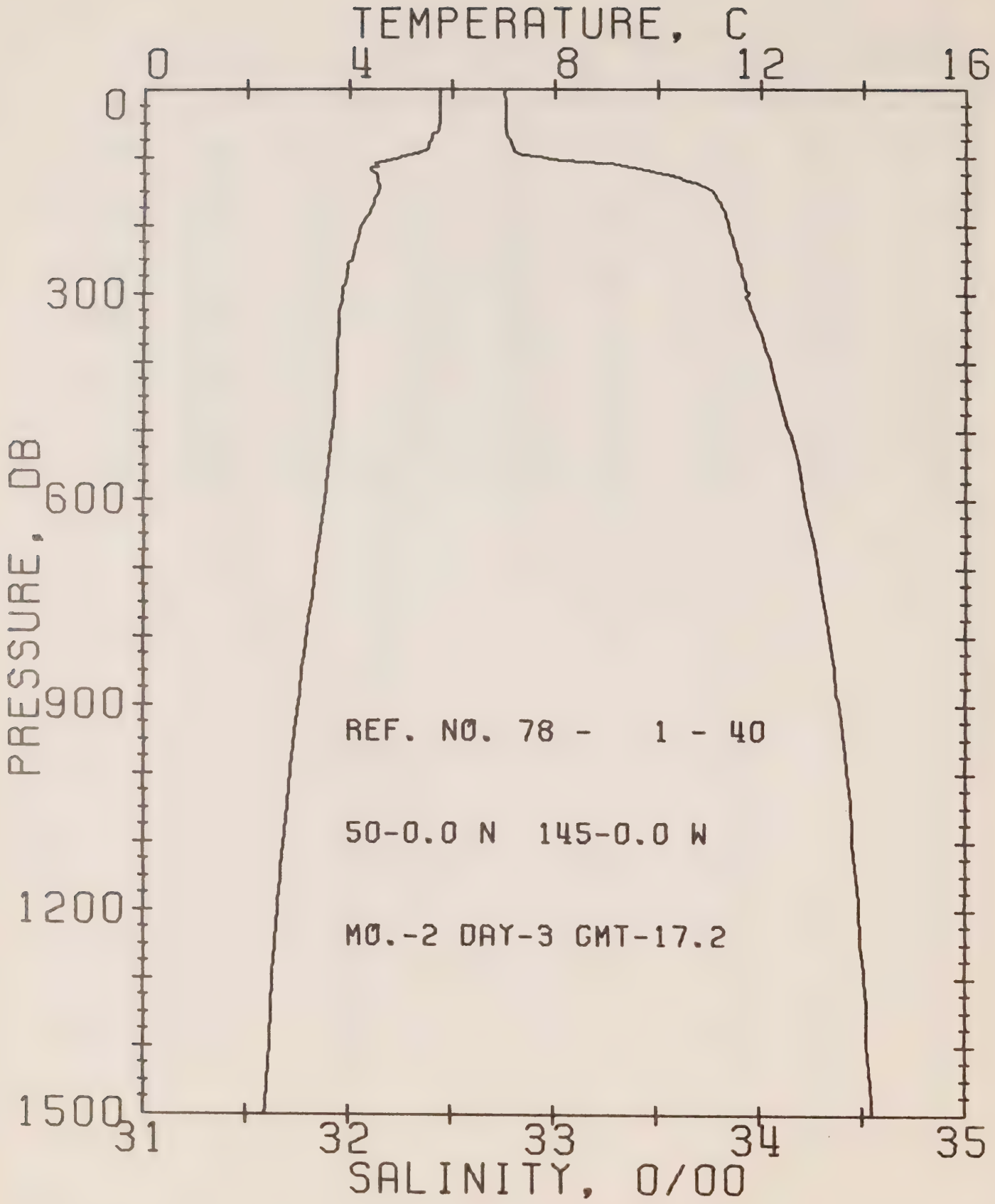
OFFSHORE OCEANOGRAPHY GROUP
REFERENCE NO. 78- 1- 38 DATE 1/ 2/78 STATION P
POSITION 50- 0.0N, 145- 0.0W GMT 17.2
RESULTS OF STP CAST 98 POINTS TAKEN FROM ANALOG TRACE

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.78	32.76	0	25.84	217.2	0.0	0.0	1471.
10	5.77	32.76	10	25.84	217.4	0.22	0.01	1471.
20	5.77	32.76	20	25.84	217.5	0.43	0.04	1472.
30	5.77	32.76	30	25.84	217.6	0.65	0.10	1472.
50	5.74	32.76	50	25.84	217.5	1.09	0.28	1472.
75	5.59	32.78	75	25.87	214.5	1.63	0.62	1472.
100	5.51	32.81	99	25.91	211.6	2.16	1.10	1472.
125	4.35	33.46	124	26.55	150.6	2.63	1.63	1468.
150	4.61	33.72	149	26.73	133.7	2.99	2.13	1470.
175	4.42	33.81	174	26.82	125.5	3.31	2.65	1470.
200	4.23	33.84	199	26.87	121.5	3.62	3.25	1470.
225	4.13	33.86	223	26.89	119.2	3.92	3.90	1470.
250	4.08	33.88	248	26.92	117.1	4.21	4.62	1470.
300	3.86	33.94	298	26.98	111.0	4.78	6.22	1470.


TEMPERATURE, C
0
4
8
12
16
0
60
120
180
240
300
PRESSURE, DB
REF. NO. 78 - 1 - 39
50-0.0 N 145-0.0 W
MO.-2 DAY-2 GMT-17.2
31
32
33
34
35
SALINITY, O/OO

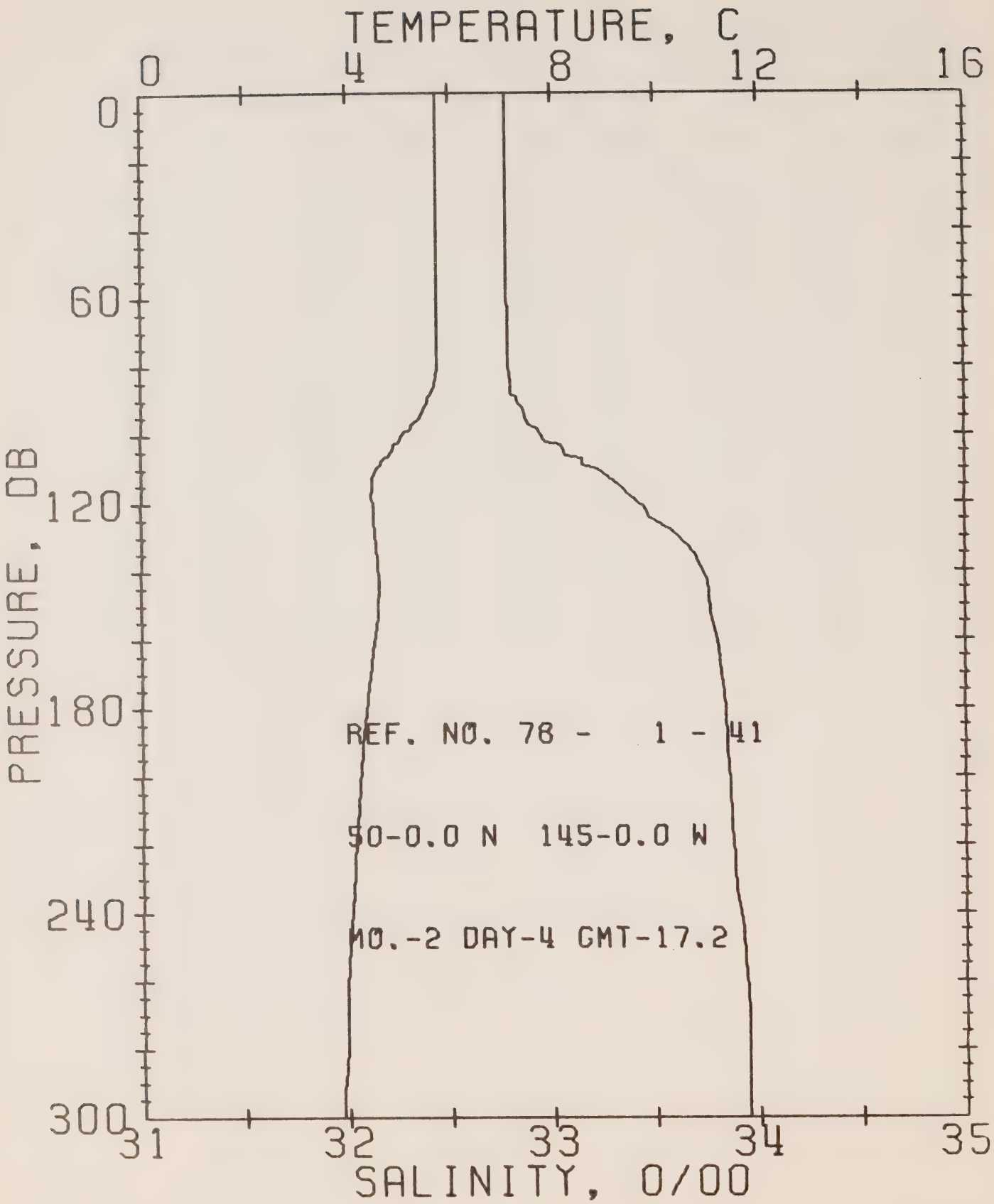
OFFSHORE OCEANOGRAPHY GROUP
REFERENCE NO. 78- 1- 39 DATE 2/ 2/78 STATION P
POSITION 50- 0.0N, 145- 0.0W GMT 17.2
RESULTS OF STD CAST 85 POINTS TAKEN FROM ANALOG TRACE

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.77	32.76	0	25.84	217.1	0.0	0.0	1471.
10	5.77	32.76	10	25.84	217.4	0.22	0.01	1471.
20	5.77	32.76	20	25.84	217.5	0.43	0.04	1472.
30	5.77	32.76	30	25.84	217.6	0.65	0.10	1472.
50	5.76	32.76	50	25.84	217.7	1.09	0.28	1472.
75	5.73	32.78	75	25.86	216.4	1.63	0.62	1472.
100	4.91	33.00	99	26.12	190.9	2.16	1.09	1470.
125	4.43	33.46	124	26.54	151.4	2.58	1.57	1469.
150	4.61	33.72	149	26.73	134.1	2.93	2.06	1470.
175	4.47	33.80	174	26.81	126.8	3.25	2.60	1470.
200	4.22	33.84	199	26.87	121.3	3.56	3.19	1470.
225	4.10	33.87	223	26.90	118.5	3.86	3.84	1469.
250	3.98	33.89	248	26.93	115.5	4.15	4.55	1469.
300	3.92	33.93	298	26.97	112.4	4.73	6.15	1470.


TEMPERATURE, C
0
4
8
12
16
0
300
600
900
1200
1500
PRESSURE, DB
REF. NO. 78 - 1 - 40
50-0.0 N 145-0.0 W
MO.-2 DAY-3 GMT-17.2
31
32
33
34
35
SALINITY, O/OO

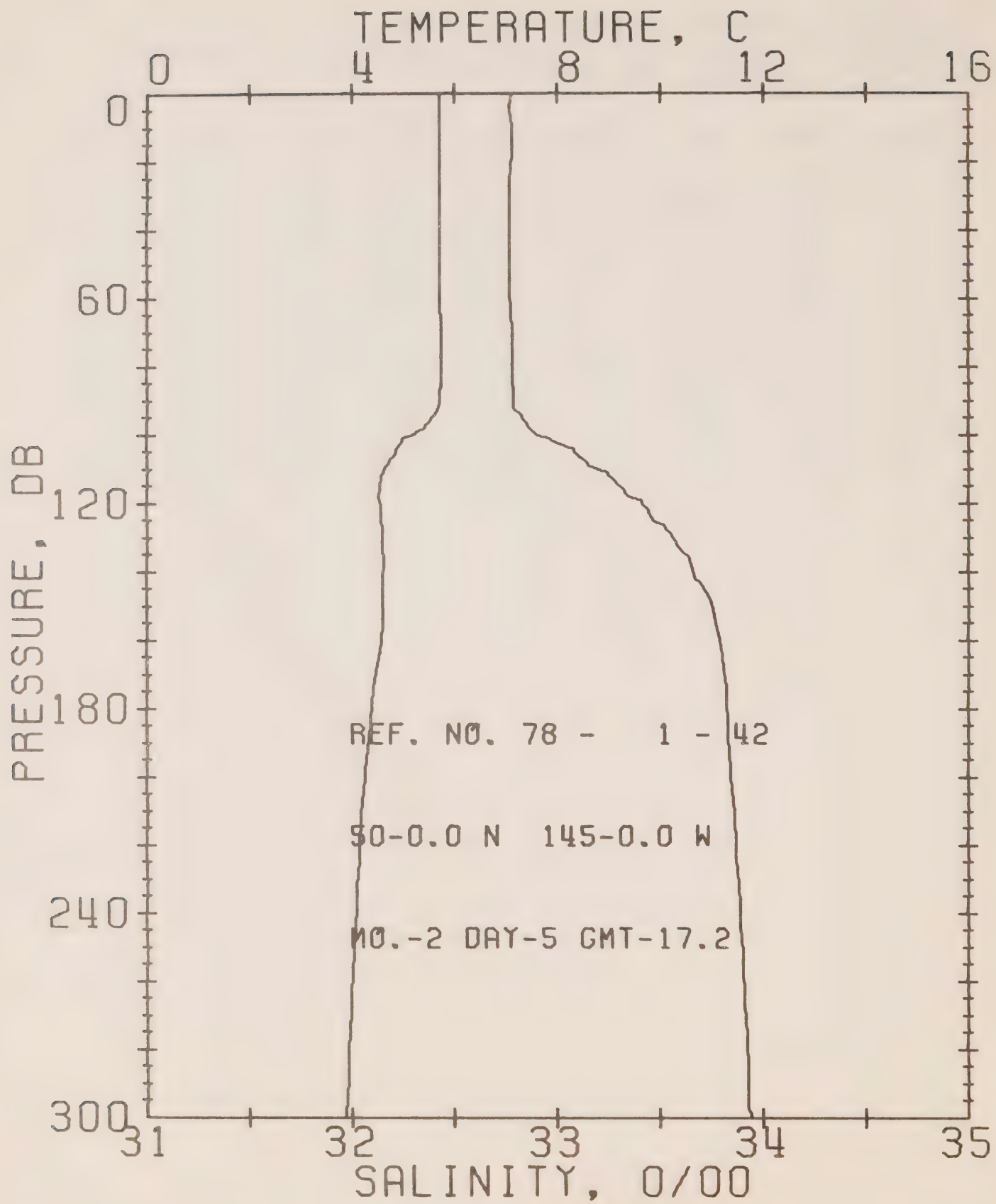
OFFSHORE OCEANOGRAPHY GROUP
REFERENCE NO. 78- 1- 40 DATE 3/ 2/78 STATION P
POSITION 50- 0.0N. 145- 0.0W GMT 17.2
RESULTS OF STD CAST 152 POINTS TAKEN FROM ANALOG TRACE

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.77	32.76	0	25.84	217.1	0.0	0.0	1471.
10	5.77	32.75	10	25.83	218.1	0.22	0.01	1471.
20	5.76	32.76	20	25.84	217.4	0.44	0.04	1471.
30	5.76	32.76	30	25.84	217.5	0.65	0.10	1472.
50	5.75	32.76	50	25.84	217.6	1.09	0.28	1472.
75	5.57	32.78	75	25.88	214.2	1.63	0.62	1472.
100	5.00	32.94	99	26.07	196.3	2.16	1.09	1470.
125	4.53	33.55	124	26.60	145.5	2.57	1.56	1469.
150	4.56	33.76	149	26.77	130.3	2.91	2.04	1470.
175	4.41	33.81	174	26.83	125.1	3.23	2.57	1470.
200	4.22	33.84	199	26.87	121.4	3.54	3.16	1469.
225	4.12	33.87	223	26.90	118.5	3.84	3.81	1470.
250	4.03	33.89	248	26.93	116.1	4.13	4.52	1470.
300	3.86	33.94	298	26.98	111.0	4.70	6.10	1470.
400	3.75	34.05	397	27.08	102.7	5.77	9.92	1471.
500	3.66	34.14	496	27.16	95.6	6.76	14.48	1472.
600	3.51	34.21	595	27.23	89.5	7.69	19.64	1474.
800	3.16	34.33	793	27.36	78.0	9.36	31.51	1476.
1000	2.85	34.42	990	27.46	69.4	10.83	44.96	1478.
1200	2.61	34.48	1188	27.53	63.6	12.15	59.83	1480.
1500	2.35	34.55	1483	27.61	57.1	13.96	84.67	1484.


TEMPERATURE, C
0
4
8
12
16
0
60
120
180
240
300
PRESSURE, DB
REF. NO. 78 - 1 - 41
50-0.0 N 145-0.0 W
MO.-2 DAY-4 GMT-17.2
31
32
33
34
35
SALINITY, O/OO

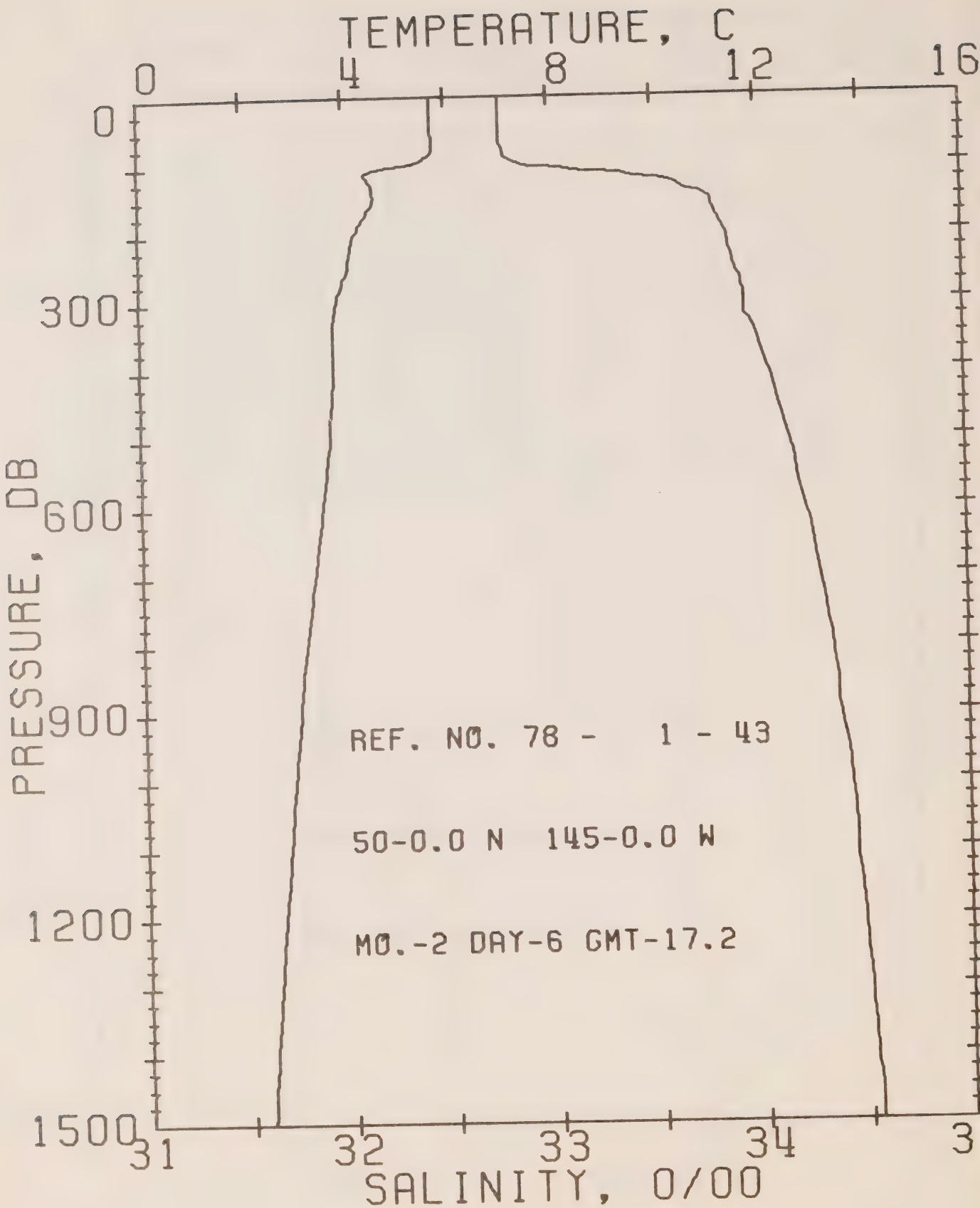
OFFSHORE OCEANOGRAPHY GROUP
REFERENCE NO. 78- 1- 41 DATE 4/ 2/78 STATION P
POSITION 50- 0.0N, 145- 0.0W GMT 17.2
RESULTS OF STP CAST 77 POINTS TAKEN FROM ANALOG TRACE

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.75	32.78	0	25.85	215.4	0.0	0.0	1471.
10	5.75	32.78	10	25.86	215.7	0.22	0.01	1471.
20	5.75	32.78	20	25.86	215.8	0.43	0.04	1471.
30	5.76	32.78	30	25.85	216.0	0.65	0.10	1472.
50	5.76	32.78	50	25.85	216.2	1.08	0.28	1472.
75	5.75	32.79	75	25.86	215.7	1.62	0.62	1472.
100	5.06	32.94	99	26.06	196.9	2.15	1.09	1470.
125	4.51	33.50	124	26.57	149.2	2.57	1.57	1469.
150	4.59	33.77	149	26.77	130.3	2.91	2.05	1470.
175	4.38	33.83	174	26.84	123.5	3.23	2.57	1470.
200	4.22	33.86	199	26.88	120.1	3.53	3.15	1470.
225	4.11	33.88	223	26.91	117.5	3.83	3.80	1469.
250	4.00	33.92	248	26.96	113.2	4.12	4.49	1469.
300	3.86	33.95	298	26.99	110.3	4.67	6.05	1470.


TEMPERATURE, C
0
4
8
12
16
0
60
120
180
240
300
PRESSURE, DB
REF. NO. 78 - 1 - 42
50-0.0 N 145-0.0 W
NO.-2 DAY-5 GMT-17.2
31
32
33
34
35
SALINITY, O/OO

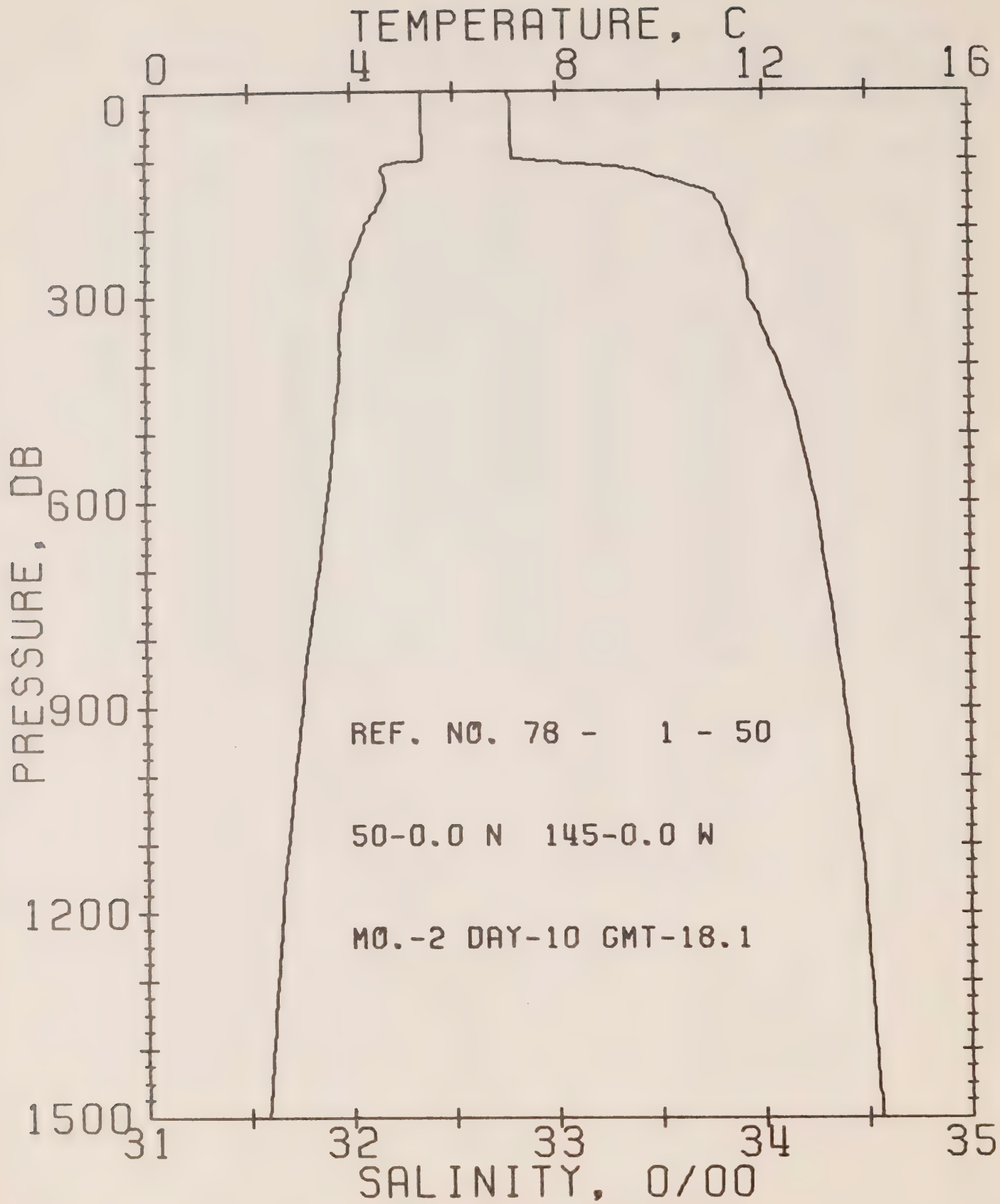
OFFSHORE OCEANOGRAPHY GROUP
REFERENCE NO. 78- 1- 42 DATE 5/ 2/78 STATION P
POSITION 50- 0.0N, 145- 0.0W GMT 17.2
RESULTS OF STP CAST 77 POINTS TAKEN FROM ANALOG TRACE

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.72	32.78	0	25.86	215.0	0.0	0.0	1471.
10	5.72	32.78	10	25.86	215.3	0.22	0.01	1471.
20	5.72	32.78	20	25.86	215.6	0.43	0.04	1471.
30	5.72	32.77	30	25.85	216.2	0.65	0.10	1471.
50	5.72	32.77	50	25.85	216.5	1.08	0.28	1472.
75	5.73	32.78	75	25.86	216.1	1.62	0.62	1472.
100	5.17	32.90	99	26.02	201.1	2.15	1.10	1471.
125	4.57	33.47	124	26.54	152.1	2.58	1.58	1469.
150	4.60	33.75	149	26.75	131.9	2.93	2.07	1470.
175	4.40	33.82	174	26.83	124.6	3.25	2.60	1470.
200	4.23	33.84	199	26.87	121.5	3.56	3.19	1470.
225	4.12	33.87	223	26.90	118.2	3.86	3.84	1469.
250	4.03	33.90	248	26.93	115.5	4.15	4.54	1470.
300	3.87	33.94	298	26.98	111.1	4.72	6.13	1470.


TEMPERATURE, C
0
4
8
12
16
0
300
600
900
1200
1500
PRESSURE, DB
REF. NO. 78 - 1 - 43
50-0.0 N 145-0.0 W
MO.-2 DAY-6 GMT-17.2
31
32
33
34
3
SALINITY, O/OO

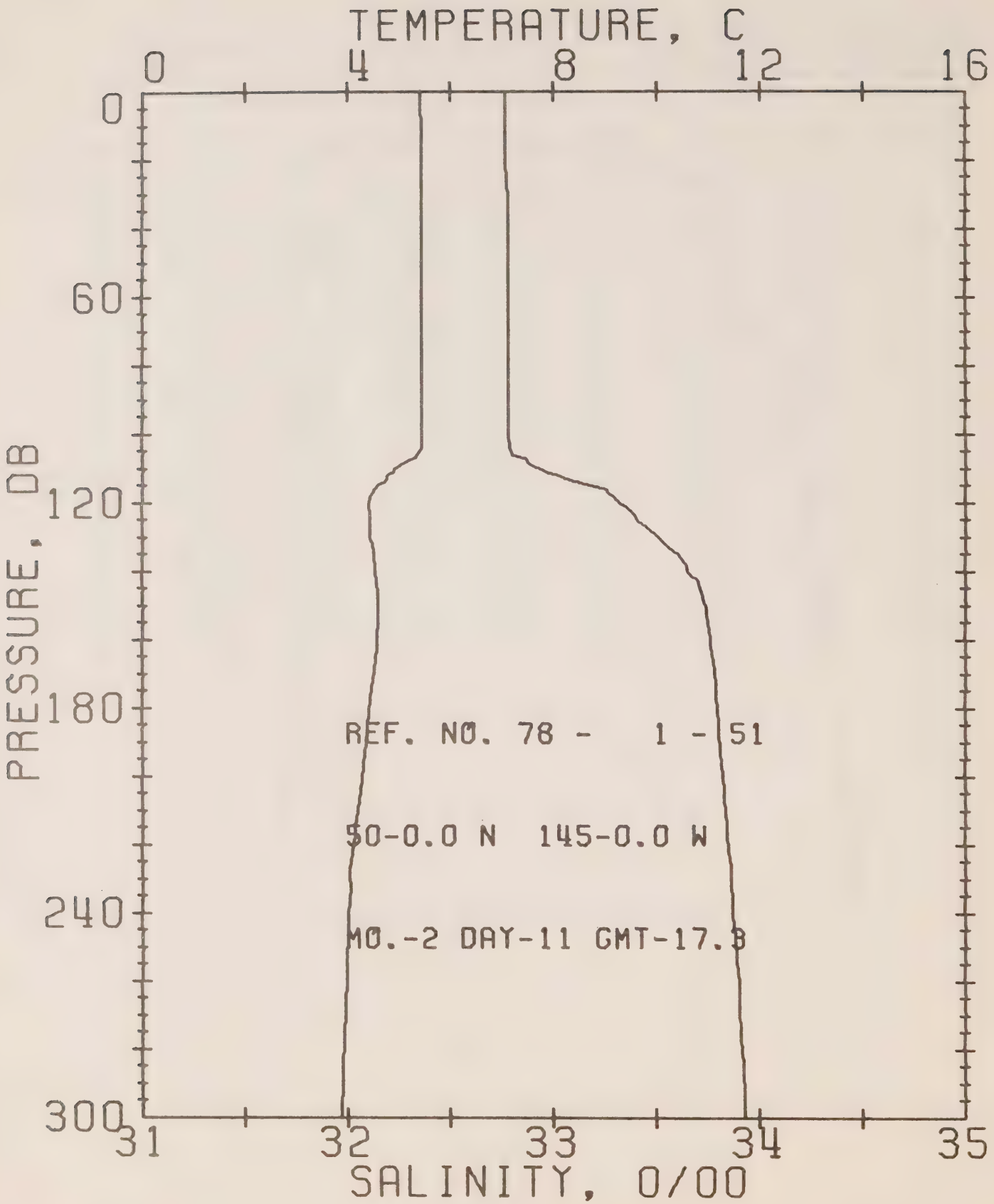
OFFSHORE OCEANOGRAPHY GROUP
REFERENCE NO. 78- 1- 43 DATE 6/ 2/78 STATION P
POSITION 50- 0.0N, 145- 0.0W GMT 17.2
RESULTS OF STP CAST 154 POINTS TAKEN FROM ANALOG TRACE

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.74	32.77	0	25.85	216.0	0.0	0.0	1471.
10	5.74	32.77	10	25.85	216.3	0.22	0.01	1471.
20	5.74	32.77	20	25.85	216.4	0.43	0.04	1471.
30	5.74	32.77	30	25.85	216.5	0.65	0.10	1472.
50	5.74	32.77	50	25.85	216.7	1.08	0.28	1472.
75	5.75	32.78	75	25.85	216.6	1.62	0.62	1472.
100	5.20	32.88	99	26.00	202.9	2.16	1.10	1471.
125	4.54	33.59	124	26.63	142.7	2.58	1.57	1469.
150	4.58	33.77	149	26.78	129.6	2.92	2.05	1470.
175	4.41	33.81	174	26.82	125.5	3.24	2.58	1470.
200	4.21	33.85	199	26.88	120.5	3.54	3.16	1469.
225	4.12	33.87	223	26.90	118.3	3.84	3.81	1470.
250	4.07	33.89	248	26.92	116.2	4.13	4.52	1470.
300	3.84	33.94	298	26.98	110.8	4.70	6.10	1470.
400	3.76	34.05	397	27.08	102.7	5.77	9.30	1471.
500	3.67	34.15	496	27.16	95.3	6.76	14.44	1472.
600	3.52	34.22	595	27.24	88.9	7.68	19.60	1474.
800	3.15	34.34	793	27.37	77.2	9.33	31.37	1475.
1000	2.88	34.43	990	27.46	69.3	10.80	44.78	1478.
1200	2.65	34.48	1188	27.53	64.1	12.13	59.73	1480.
1500	2.35	34.55	1483	27.61	57.1	13.94	84.57	1484.


TEMPERATURE, C
0
4
8
12
16
0
300
600
900
1200
1500
PRESSURE, DB
REF. NO. 78 - 1 - 50
50-0.0 N 145-0.0 W
MO.-2 DAY-10 GMT-18.1
31
32
33
34
35
SALINITY, O/OO

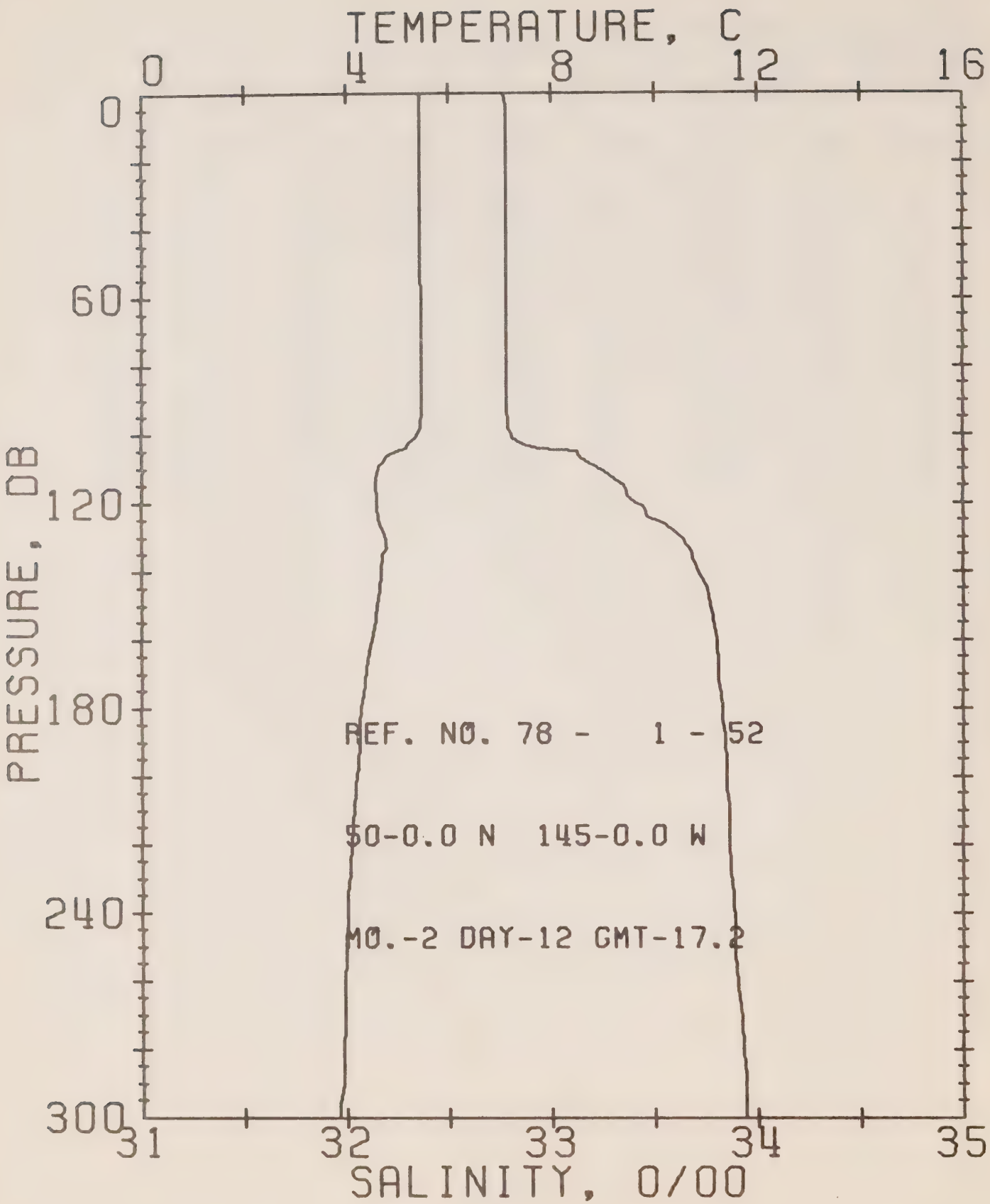
OFFSHORE OCEANOGRAPHY GROUP
REFERENCE NO. 78- 1- 50 DATE 10/ 2/78 STATION P
POSITION 50- 0.0N, 145- 0.0W GMT 18.1
RESULTS OF STP CAST 151 POINTS TAKEN FROM ANALOG TRACE

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	PCT. EN	SOUND
0	5.38	32.77	0	25.89	211.9	0.0	0.0	1470.
10	5.39	32.77	10	25.89	212.2	0.21	0.01	1470.
20	5.40	32.78	20	25.90	211.9	0.42	0.04	1470.
30	5.40	32.78	30	25.90	212.0	0.64	0.10	1470.
50	5.40	32.78	50	25.90	212.2	1.06	0.27	1471.
75	5.42	32.78	75	25.90	212.6	1.59	0.61	1471.
100	5.39	32.84	99	25.95	208.1	2.12	1.08	1471.
125	4.66	33.48	124	26.53	152.3	2.55	1.57	1470.
150	4.65	33.75	149	26.75	132.2	2.90	2.06	1470.
175	4.47	33.81	174	26.82	126.0	3.22	2.59	1470.
200	4.25	33.83	199	26.86	122.3	3.53	3.18	1470.
225	4.13	33.87	223	26.90	118.6	3.83	3.84	1470.
250	4.01	33.90	248	26.94	115.1	4.12	4.54	1469.
300	3.87	33.93	298	26.97	111.9	4.69	6.13	1470.
400	3.76	34.07	397	27.10	100.8	5.75	9.91	1471.
500	3.64	34.17	496	27.19	92.8	6.72	14.34	1472.
600	3.51	34.25	595	27.26	86.8	7.62	19.36	1474.
800	3.15	34.35	793	27.38	76.8	9.25	31.00	1475.
1000	2.87	34.43	990	27.47	69.2	10.71	44.34	1478.
1200	2.61	34.49	1188	27.54	62.8	12.02	59.01	1480.
1500	2.33	34.56	1483	27.62	56.2	13.80	83.47	1484.


TEMPERATURE, C
0
4
8
12
16
0
60
120
180
240
300
PRESSURE, DB
REF. NO. 78 - 1 - 51
50-0.0 N 145-0.0 W
MO.-2 DAY-11 GMT-17.3
31
32
33
34
35
SALINITY, O/OO

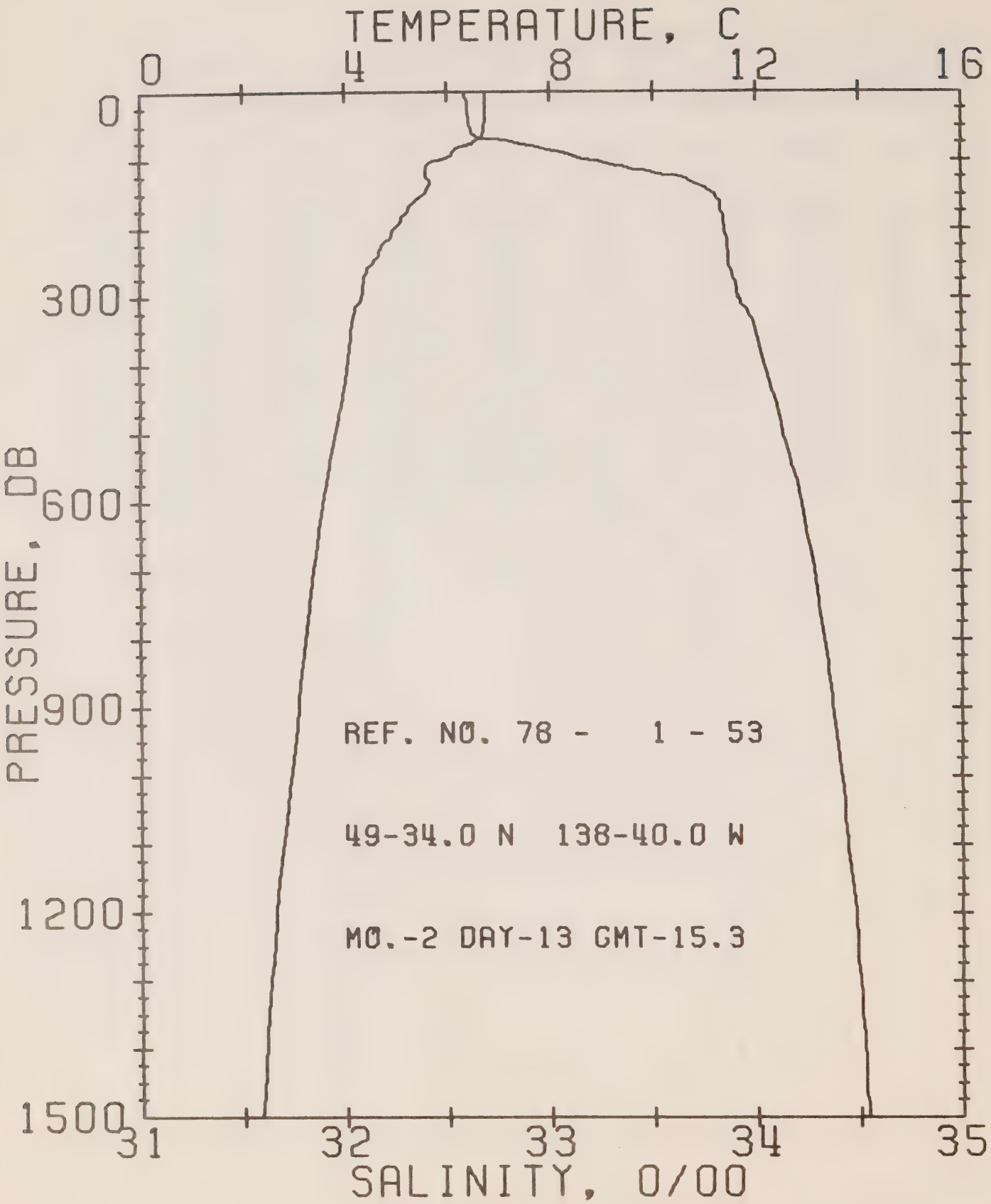
OFFSHORE OCEANOGRAPHY GROUP
REFERENCE NO. 78- 1- 51 DATE 11/ 2/78 STATION P
POSITION 50- 0.0N, 145- 0.0W GMT 17.3
RESULTS OF STP CAST 87 POINTS TAKEN FROM ANALOG TRACE

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.42	32.77	0	25.89	212.4	0.0	0.0	1470.
10	5.43	32.77	10	25.89	212.9	0.21	0.01	1470.
20	5.43	32.77	20	25.89	213.0	0.43	0.04	1470.
30	5.44	32.78	30	25.89	212.5	0.64	0.10	1470.
50	5.44	32.78	50	25.89	212.5	1.06	0.27	1471.
75	5.44	32.78	75	25.89	212.8	1.59	0.61	1471.
100	5.44	32.78	99	25.89	213.0	2.13	1.08	1471.
125	4.42	33.41	124	26.50	155.1	2.59	1.61	1469.
150	4.58	33.73	149	26.74	132.6	2.94	2.11	1470.
175	4.45	33.79	174	26.80	127.4	3.27	2.64	1470.
200	4.27	33.82	199	26.85	123.2	3.58	3.24	1470.
225	4.05	33.86	223	26.90	118.6	3.89	3.90	1469.
250	3.98	33.88	248	26.93	116.0	4.18	4.61	1469.
300	3.87	33.93	298	26.97	111.9	4.75	6.20	1470.


TEMPERATURE, C
0
4
8
12
16
0
60
120
180
240
300
PRESSURE, DB
REF. NO. 78 - 1 - 52
50-0.0 N 145-0.0 W
MO.-2 DAY-12 GMT-17.2
31
32
33
34
35
SALINITY, O/OO

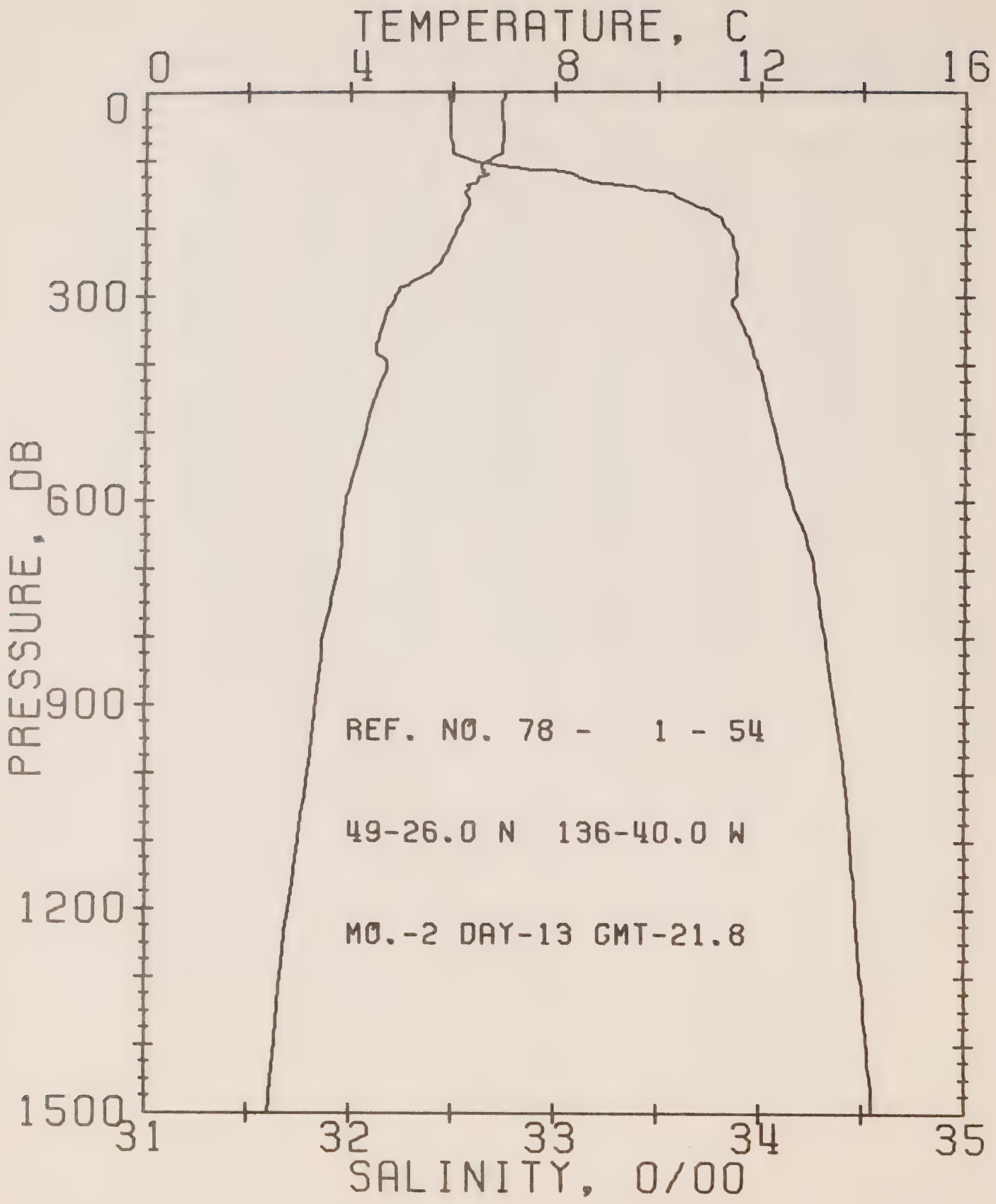
OFFSHORE OCEANOGRAPHY GROUP
REFERENCE NO. 78- 1- 52 DATE 12/ 2/78 STATION P
POSITION 50- 0.0N, 145- 0.0W GMT 17.2
RESULTS OF STP CAST 90 POINTS TAKEN FROM ANALOG TRACE

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	5.44	32.77	0	25.88	212.6	0.0	0.0	1470.
10	5.45	32.78	10	25.89	212.3	0.21	0.01	1470.
20	5.45	32.78	20	25.89	212.4	0.42	0.04	1470.
30	5.45	32.78	30	25.89	212.5	0.64	0.10	1470.
50	5.45	32.78	50	25.89	212.7	1.06	0.27	1471.
75	5.46	32.78	75	25.89	213.1	1.59	0.61	1471.
100	5.36	32.80	99	25.92	210.5	2.13	1.08	1471.
125	4.63	33.50	124	26.56	150.2	2.56	1.57	1470.
150	4.60	33.77	149	26.77	130.2	2.90	2.05	1470.
175	4.32	33.82	174	26.84	123.9	3.22	2.58	1469.
200	4.20	33.85	199	26.88	120.5	3.52	3.16	1469.
225	4.05	33.87	223	26.91	117.8	3.82	3.80	1469.
250	3.93	33.89	248	26.93	115.5	4.11	4.51	1469.
300	3.83	33.94	298	26.99	110.7	4.67	6.09	1470.


TEMPERATURE, C
0
4
8
12
16
0
300
600
900
1200
1500
PRESSURE, DB
REF. NO. 78 - 1 - 53
49-34.0 N 138-40.0 W
MO.-2 DAY-13 GMT-15.3
31
32
33
34
35
SALINITY, O/OO

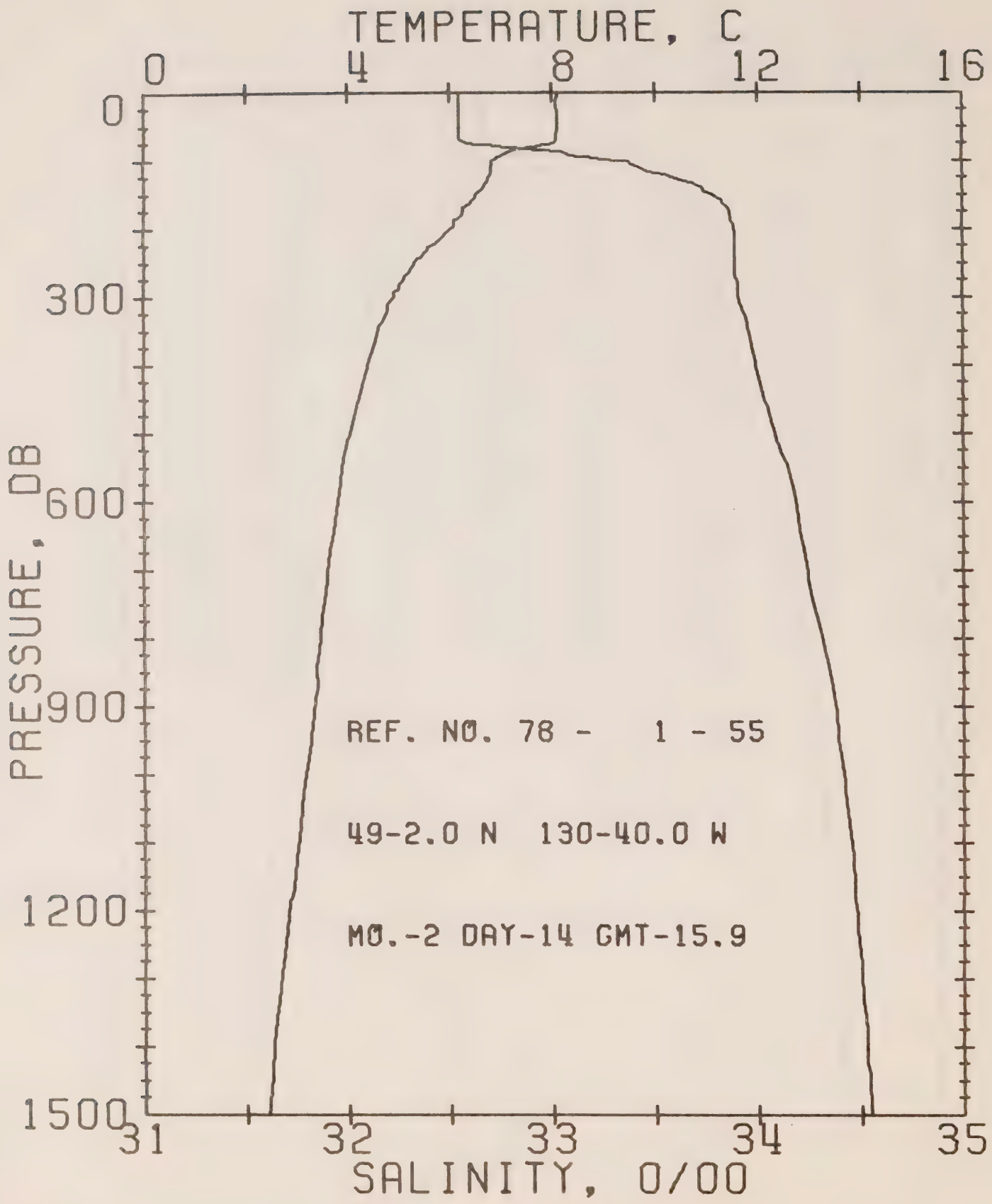
OFFSHORE OCEANOGRAPHY GROUP
REFERENCE NO. 78- 1- 53 DATE 13/ 2/78 STATION 10
POSITION 49-34.0N. 138-40.0W GMT 15.3
RESULTS OF STP CAST , 163 POINTS TAKEN FROM ANALOG TRACE

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	6.76	32.59	0	25.58	241.6	0.0	0.0	1475.
10	6.76	32.59	10	25.58	241.7	0.24	0.01	1475.
20	6.75	32.60	20	25.59	241.2	0.48	0.05	1475.
30	6.75	32.60	30	25.59	241.3	0.72	0.11	1475.
50	6.72	32.61	50	25.60	240.5	1.21	0.31	1476.
75	6.47	32.86	75	25.83	219.0	1.79	0.68	1475.
100	5.83	33.20	99	26.18	186.2	2.30	1.13	1474.
125	5.61	33.64	124	26.55	150.7	2.72	1.61	1474.
150	5.52	33.80	149	26.69	138.5	3.08	2.12	1474.
175	5.21	33.83	174	26.75	132.7	3.42	2.68	1473.
200	4.97	33.85	199	26.79	128.8	3.75	3.30	1473.
225	4.72	33.86	223	26.83	125.5	4.07	3.99	1472.
250	4.54	33.87	248	26.86	123.0	4.38	4.74	1472.
300	4.33	33.91	298	26.91	118.2	4.98	6.42	1472.
400	4.04	34.04	397	27.04	106.2	6.08	10.36	1472.
500	3.80	34.13	496	27.14	97.8	7.10	15.02	1473.
600	3.55	34.22	595	27.24	89.2	8.03	20.24	1474.
800	3.20	34.33	793	27.36	78.7	9.71	32.17	1476.
1000	2.92	34.41	990	27.45	70.8	11.20	45.85	1478.
1200	2.62	34.48	1188	27.53	63.7	12.55	60.97	1480.
1500	2.33	34.54	1484	27.60	57.7	14.37	85.92	1484.


TEMPERATURE, C
0
4
8
12
16
0
300
600
900
1200
1500
PRESSURE, DB
REF. NO. 78 - 1 - 54
49-26.0 N 136-40.0 W
MO.-2 DAY-13 GMT-21.8
31
32
33
34
35
SALINITY, O/OO

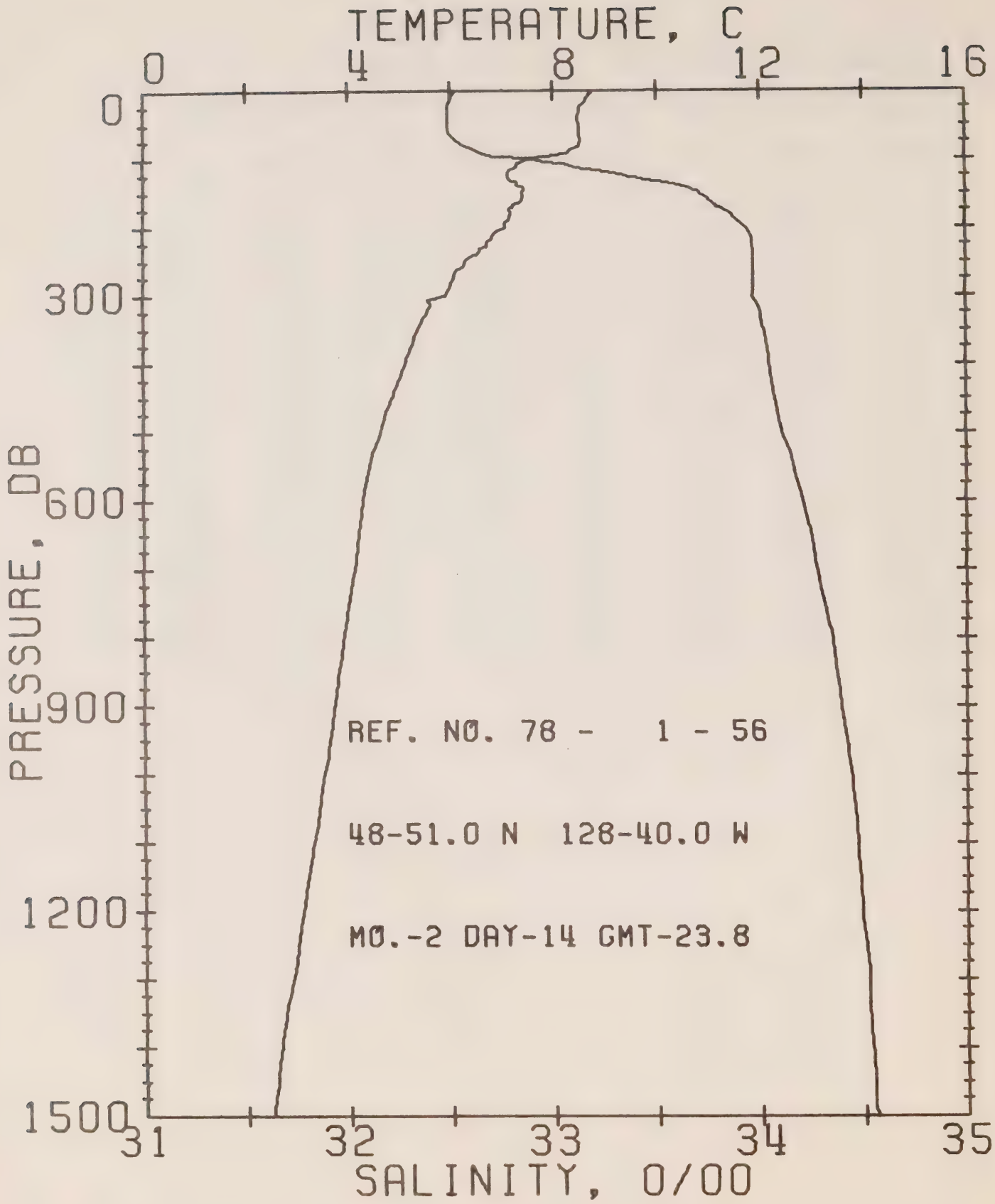
OFFSHORE OCEANOGRAPHY GROUP
REFERENCE NO. 78- 1- 54 DATE 13/ 2/78 STATION 9
POSITION 49-26.0N, 136-40.0W GMT 21.8
RESULTS OF STP CAST 178 POINTS TAKEN FROM ANALOG TRACE

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	7.02	32.48	0	25.46	253.2	0.0	0.0	1476.
10	6.99	32.48	10	25.46	253.0	0.25	0.01	1476.
20	6.97	32.49	20	25.47	252.2	0.51	0.05	1476.
30	6.97	32.49	30	25.47	252.3	0.76	0.12	1476.
50	6.98	32.49	50	25.47	252.7	1.26	0.32	1476.
75	6.97	32.50	75	25.48	252.4	1.90	0.72	1477.
100	6.71	32.59	99	25.59	242.5	2.52	1.28	1476.
125	6.49	33.12	124	26.03	200.5	3.07	1.91	1477.
150	6.27	33.57	149	26.42	164.2	3.53	2.55	1477.
175	6.24	33.75	174	26.56	151.2	3.93	3.21	1477.
200	6.08	33.83	199	26.64	143.5	4.30	3.91	1477.
225	5.93	33.87	223	26.69	139.1	4.65	4.67	1477.
250	5.75	33.89	248	26.73	135.9	4.99	5.50	1477.
300	4.87	33.88	298	26.83	126.4	5.65	7.34	1474.
400	4.71	33.98	397	26.93	117.8	6.86	11.66	1475.
500	4.29	34.07	496	27.04	107.4	7.98	16.81	1475.
600	3.92	34.15	595	27.15	98.1	9.01	22.57	1475.
800	3.46	34.32	793	27.32	82.6	10.81	35.32	1477.
1000	3.17	34.41	990	27.42	73.7	12.37	49.64	1479.
1200	2.79	34.47	1188	27.50	66.6	13.77	65.32	1481.
1500	2.39	34.55	1484	27.60	57.5	15.63	90.84	1484.


TEMPERATURE, C
0
4
8
12
16
0
300
600
900
1200
1500
PRESSURE, DB
REF. NO. 78 - 1 - 55
49-2.0 N 130-40.0 W
MO.-2 DAY-14 GMT-15.9
31
32
33
34
35
SALINITY, O/OO

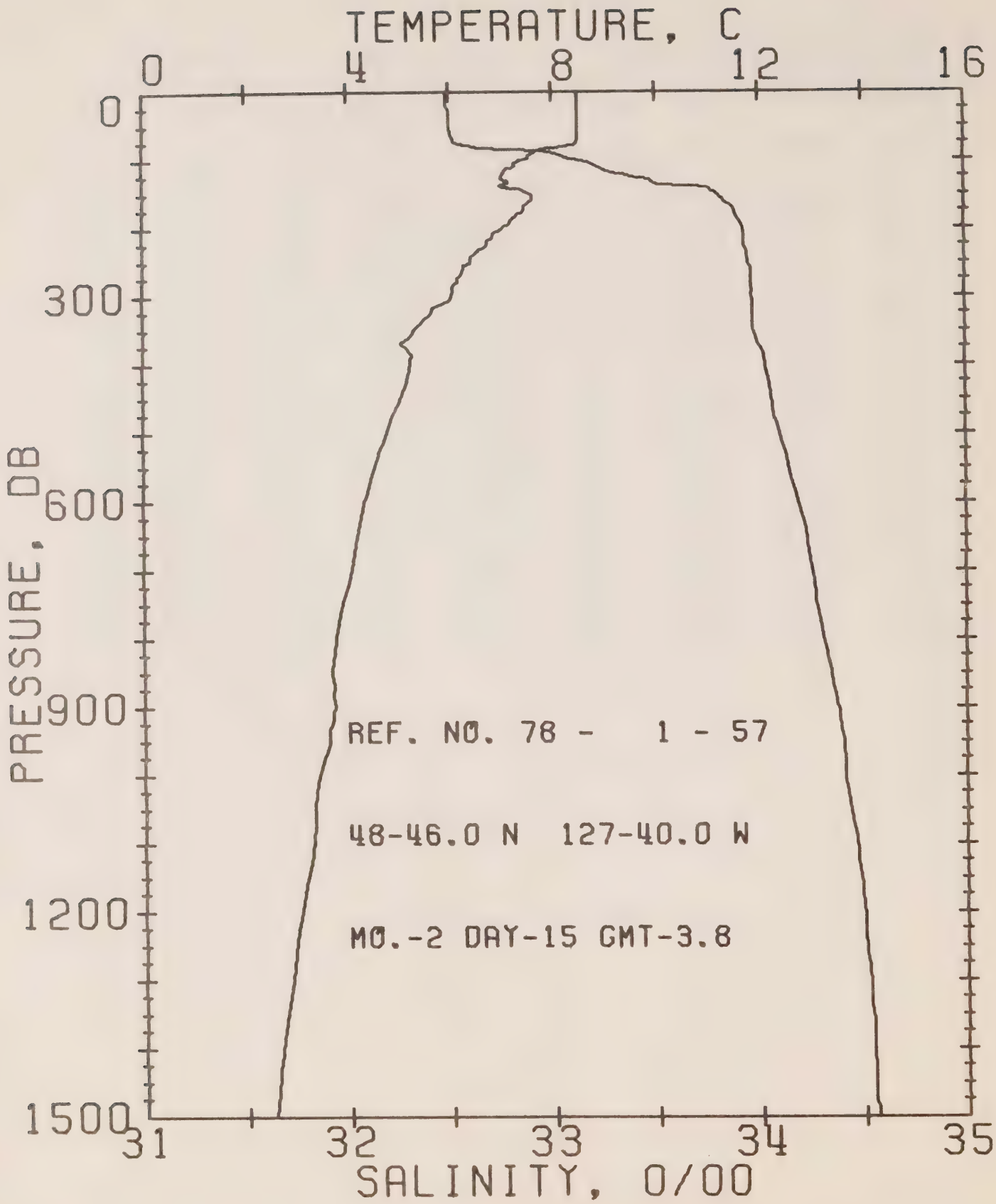
OFFSHORE OCEANOGRAPHY GROUP
REFERENCE NO. 78- 1- 55 DATE 14/ 2/78 STATION 6
POSITION 49- 2.0N, 130-40.0W GMT 15.9
RESULTS OF STP CAST / 162 POINTS TAKEN FROM ANALOG TRACE

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	PCT. EN	SOUND
0	8.10	32.55	0	25.36	262.3	0.0	0.0	1480.
10	8.09	32.55	10	25.36	262.5	0.26	0.01	1480.
20	8.09	32.55	20	25.36	262.6	0.53	0.05	1480.
30	8.10	32.55	30	25.36	263.0	0.79	0.12	1481.
50	8.10	32.55	50	25.36	263.3	1.31	0.34	1481.
75	7.98	32.64	75	25.45	255.2	1.97	0.75	1481.
100	6.84	33.31	99	26.13	190.4	2.52	1.24	1478.
125	6.75	33.59	124	26.37	168.7	2.97	1.75	1478.
150	6.52	33.78	149	26.55	152.0	3.37	2.31	1478.
175	6.24	33.86	174	26.65	142.8	3.73	2.92	1477.
200	6.01	33.88	199	26.69	138.7	4.09	3.59	1477.
225	5.63	33.89	223	26.75	133.7	4.43	4.33	1476.
250	5.31	33.89	248	26.78	130.2	4.76	5.13	1475.
300	4.89	33.90	298	26.84	125.2	5.39	6.91	1474.
400	4.38	33.99	397	26.97	113.7	6.58	11.13	1474.
500	4.02	34.08	496	27.08	104.0	7.67	16.13	1474.
600	3.79	34.18	595	27.18	94.7	8.66	21.66	1475.
800	3.43	34.31	793	27.32	82.6	10.44	34.32	1477.
1000	3.15	34.42	990	27.43	73.2	11.99	48.54	1479.
1200	2.80	34.48	1188	27.51	66.0	13.39	64.15	1481.
1500	2.42	34.55	1484	27.60	57.9	15.24	89.53	1484.


TEMPERATURE, C
0
4
8
12
16
0
300
600
900
1200
1500
PRESSURE, DB
REF. NO. 78 - 1 - 56
48-51.0 N 128-40.0 W
MO.-2 DAY-14 GMT-23.8
31
32
33
34
35
SALINITY, O/OO

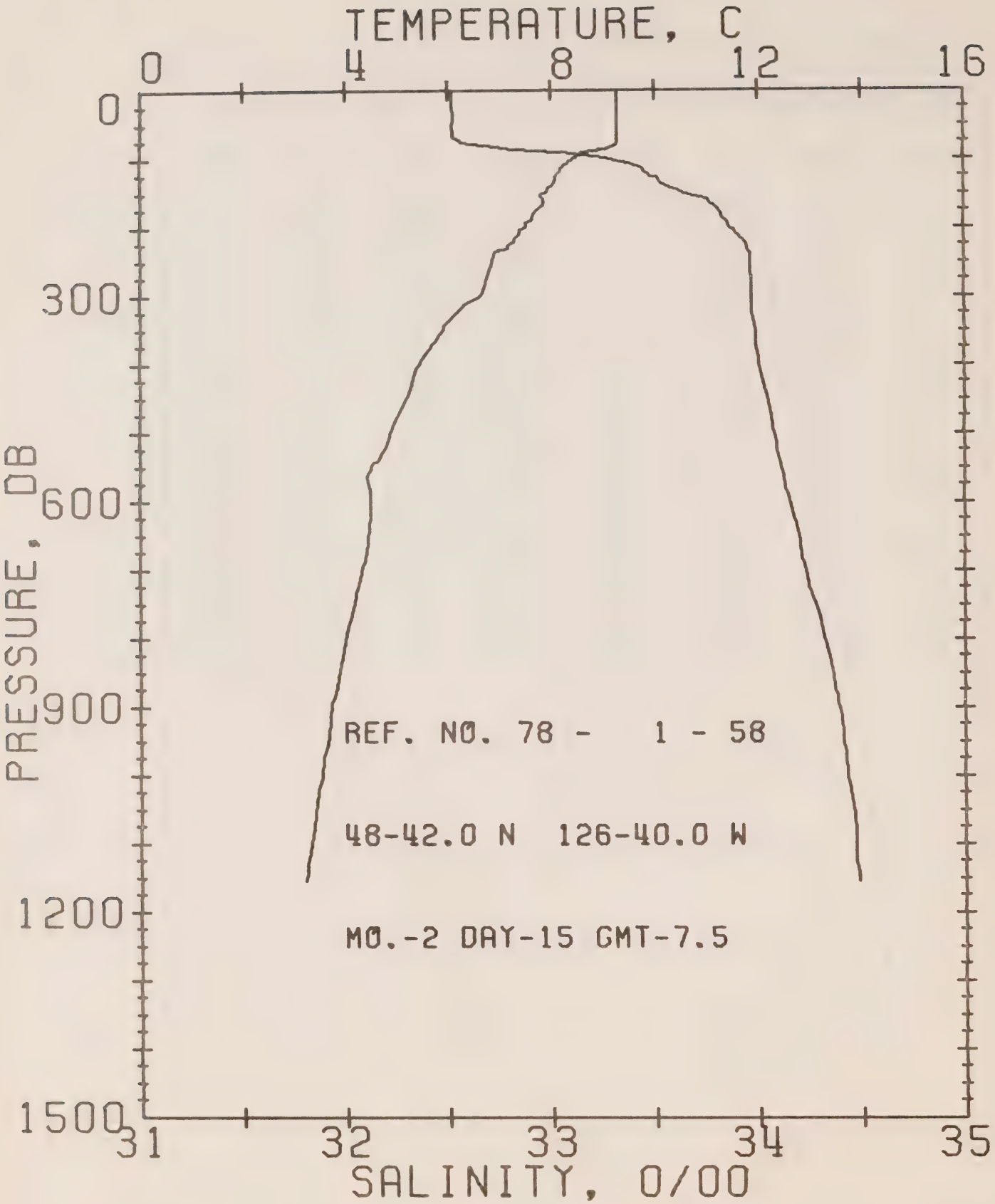
OFFSHORE OCEANOGRAPHY GROUP
REFERENCE NO. 78- 1- 56 DATE 14/ 2/78 STATION 5
POSITION 48-51.0N. 128-40.0W GMT 23.8
RESULTS OF STP CAST 165 POINTS TAKEN FROM ANALOG TRACE

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	PCT. EN	SOUND
0	8.76	32.53	0	25.25	273.2	0.0	0.0	1483.
10	8.66	32.51	10	25.25	273.6	0.27	0.01	1482.
20	8.57	32.49	20	25.25	273.6	0.55	0.06	1482.
30	8.50	32.49	30	25.26	273.1	0.82	0.13	1482.
50	8.50	32.49	50	25.26	273.4	1.37	0.35	1482.
75	8.52	32.54	75	25.29	270.4	2.05	0.78	1483.
100	7.49	32.91	99	25.73	228.8	2.70	1.36	1480.
125	7.12	33.37	124	26.14	190.0	3.22	1.96	1479.
150	7.41	33.71	149	26.37	169.0	3.66	2.58	1481.
175	7.15	33.82	174	26.50	157.3	4.07	3.25	1481.
200	7.07	33.93	199	26.59	149.0	4.46	3.99	1481.
225	6.70	33.96	223	26.66	142.0	4.82	4.77	1480.
250	6.29	33.97	248	26.73	136.3	5.16	5.61	1479.
300	5.89	33.97	298	26.78	131.8	5.83	7.48	1478.
400	5.09	34.04	397	26.93	117.9	7.06	11.86	1477.
500	4.60	34.10	496	27.03	108.7	8.20	17.06	1476.
600	4.27	34.20	595	27.15	98.5	9.23	22.83	1477.
800	3.89	34.34	793	27.30	85.3	11.07	35.91	1479.
1000	3.50	34.44	991	27.41	75.6	12.68	50.67	1480.
1200	3.07	34.49	1188	27.50	68.1	14.11	66.72	1482.
1500	2.47	34.56	1484	27.61	57.8	16.00	92.53	1484.


TEMPERATURE, C
0
4
8
12
16
0
300
600
900
1200
1500
PRESSURE, DB
REF. NO. 78 - 1 - 57
48-46.0 N 127-40.0 W
MO.-2 DAY-15 GMT-3.8
31
32
33
34
35
SALINITY, O/OO

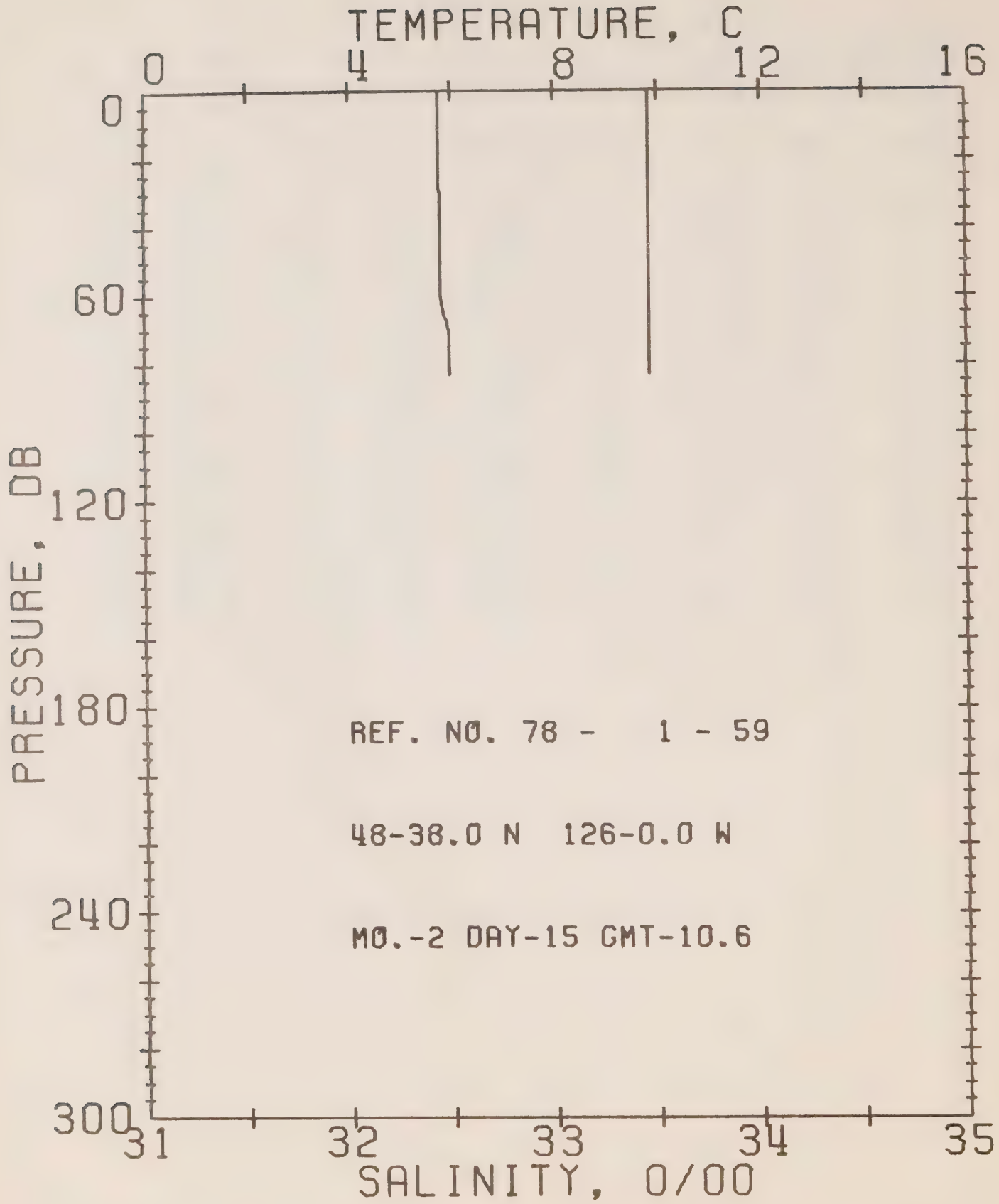
OFFSHORE OCEANOGRAPHY GROUP
REFERENCE NO. 78- 1- 57 DATE 15/ 2/78 STATION 4
POSITION 48-46.0N, 127-40.0W GMT 3.8
RESULTS OF STP CAST 163 POINTS TAKEN FROM ANALOG TRACE

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	8.48	32.49	0	25.26	272.1	0.0	0.0	1481.
10	8.50	32.49	10	25.26	272.8	0.27	0.01	1482.
20	8.51	32.49	20	25.25	273.0	0.55	0.06	1482.
30	8.51	32.50	30	25.26	272.5	0.82	0.13	1482.
50	8.51	32.50	50	25.26	272.8	1.36	0.35	1482.
75	8.47	32.55	75	25.31	268.9	2.04	0.78	1483.
100	7.41	33.13	99	25.91	211.4	2.64	1.31	1480.
125	7.00	33.41	124	26.19	185.5	3.14	1.88	1479.
150	7.55	33.79	149	26.42	164.7	3.57	2.48	1482.
175	7.42	33.88	174	26.50	156.9	3.97	3.15	1482.
200	7.04	33.92	199	26.59	149.1	4.35	3.88	1481.
225	6.70	33.93	223	26.64	144.3	4.72	4.67	1480.
250	6.40	33.95	248	26.70	139.2	5.07	5.52	1479.
300	6.02	33.96	298	26.75	134.2	5.75	7.43	1479.
400	5.20	34.03	397	26.91	120.4	7.00	11.89	1477.
500	4.73	34.09	496	27.01	111.0	8.17	17.21	1477.
600	4.30	34.18	595	27.13	100.4	9.22	23.11	1477.
800	3.74	34.30	793	27.28	86.6	11.08	36.36	1478.
1000	3.41	34.41	991	27.40	76.4	12.71	51.28	1480.
1200	3.02	34.50	1188	27.51	66.9	14.15	67.31	1482.
1500	2.50	34.56	1484	27.60	58.1	16.01	92.93	1485.


TEMPERATURE, C
0
4
8
12
16
0
300
600
900
1200
1500
PRESSURE, DB
REF. NO. 78 - 1 - 58
48-42.0 N 126-40.0 W
MO.-2 DAY-15 GMT-7.5
31
32
33
34
35
SALINITY, O/OO

OFFSHORE OCEANOGRAPHY GROUP
REFERENCE NO. 78- 1- 58 DATE 15/ 2/78 STATION 3
POSITION 48-42.0N, 126-40.0W GMT 7.5
RESULTS OF STP CAST 138 POINTS TAKEN FROM ANALOG TRACE

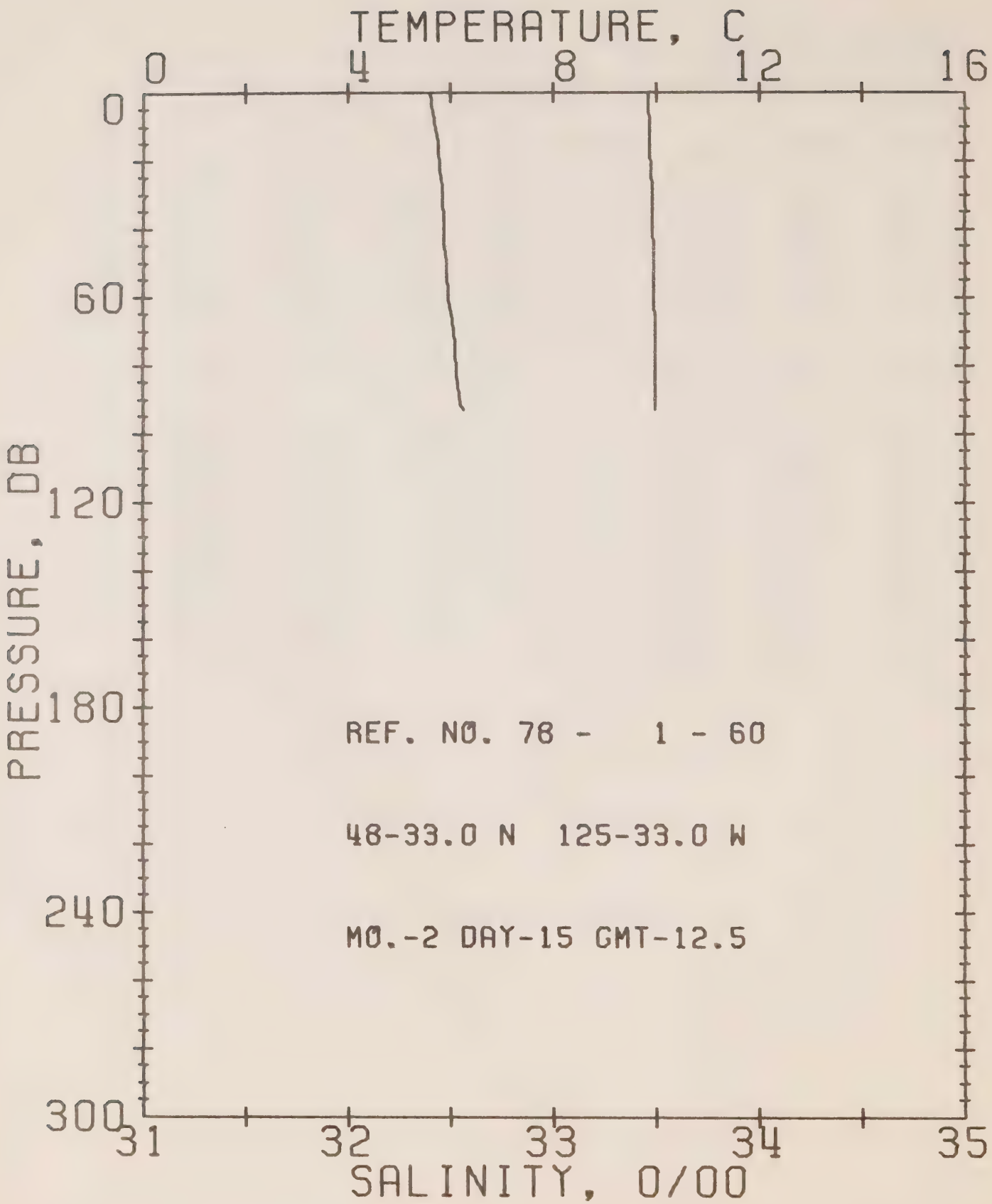
PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	9.28	32.52	0	25.16	281.6	0.0	0.0	1485.
10	9.28	32.52	10	25.16	282.0	0.28	0.01	1485.
20	9.29	32.52	20	25.16	282.3	0.56	0.06	1485.
30	9.29	32.52	30	25.16	282.2	0.85	0.13	1485.
50	9.28	32.52	50	25.16	282.5	1.41	0.36	1485.
75	9.28	32.56	75	25.19	280.2	2.12	0.81	1486.
100	8.42	33.29	99	25.89	213.6	2.74	1.36	1484.
125	8.08	33.48	124	26.09	195.1	3.24	1.94	1483.
150	7.86	33.65	149	26.26	179.8	3.71	2.60	1483.
175	7.71	33.81	174	26.41	166.1	4.14	3.31	1483.
200	7.48	33.86	199	26.48	159.6	4.55	4.09	1483.
225	7.19	33.94	223	26.58	150.1	4.94	4.92	1482.
250	6.84	33.96	248	26.65	144.2	5.30	5.81	1481.
300	6.62	33.97	298	26.68	141.2	6.02	7.81	1481.
400	5.41	34.00	397	26.86	124.9	7.33	12.49	1478.
500	4.87	34.08	496	26.98	113.8	8.53	17.95	1477.
600	4.47	34.15	595	27.08	104.7	9.61	24.02	1477.
800	3.97	34.32	793	27.27	88.2	11.56	37.86	1479.
1000	3.51	34.43	991	27.41	76.2	13.18	52.75	1480.


TEMPERATURE, C
0
4
8
12
16
0
60
120
180
240
300
PRESSURE, DB
REF. NO. 78 - 1 - 59
48-38.0 N 126-0.0 W
MO.-2 DAY-15 GMT-10.6
31
32
33
34
35
SALINITY, O/OO

OFFSHORE OCEANOGRAPHY GROUP
REFERENCE NO. 78- 1- 59 DATE 15/ 2/78 STATION 2
POSITION 48-38.0N, 126- 0.0W GMT 10.6
RESULTS OF STP CAST 23 POINTS TAKEN FROM ANALOG TRACE

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	9.84	32.44	0	25.01	296.2	0.0	0.0	1487.
10	9.84	32.44	10	25.01	296.6	0.30	0.02	1487.
20	9.84	32.44	20	25.01	296.7	0.59	0.06	1487.
30	9.84	32.45	30	25.01	296.5	0.89	0.14	1487.
50	9.84	32.45	50	25.01	296.6	1.48	0.38	1487.
75	9.84	32.49	75	25.04	294.1	2.22	0.85	1488.

DEPTH	TEMP	SAL	DEPTH	TEMP	SAL
0.	9.84	32.44	59.	9.85	32.45
4.	9.84	32.44	60.	9.85	32.45
6.	9.84	32.44	65.	9.85	32.46
11.	9.84	32.44	68.	9.85	32.48
16.	9.84	32.44	72.	9.84	32.49
19.	9.84	32.44	73.	9.84	32.49
26.	9.84	32.44	79.	9.85	32.49
33.	9.84	32.45	80.	9.85	32.49
37.	9.84	32.45	81.	9.84	32.49
41.	9.84	32.45	82.	9.84	32.49
49.	9.84	32.45	83.	9.85	32.49
50.	9.84	32.45			


TEMPERATURE, C
0
4
8
12
16
0
60
120
180
240
300
PRESSURE, DB
REF. NO. 78 - 1 - 60
48-33.0 N 125-33.0 W
MO.-2 DAY-15 GMT-12.5
31
32
33
34
35
SALINITY, O/OO

OFFSHORE OCEANOGRAPHY GROUP
REFERENCE NO. 78- 1- 60 DATE 15/ 2/78 STATION 1
POSITION 48-33.0N, 125-33.0W GMT 12.5
RESULTS OF STP CAST 26 POINTS TAKEN FROM ANALOG TRACE

PRESS	TEMP	SAL	DEPTH	SIGMA T	SVA	DELTA D	POT. EN	SOUND
0	9.85	32.40	0	24.97	299.2	0.0	0.0	1487.
10	9.87	32.42	10	24.99	298.3	0.30	0.02	1487.
20	9.89	32.45	20	25.00	297.1	0.60	0.06	1487.
30	9.92	32.46	30	25.01	296.7	0.89	0.14	1487.
50	9.95	32.48	50	25.02	296.0	1.49	0.38	1488.
75	9.98	32.52	75	25.04	294.1	2.22	0.85	1488.

DEPTH	TEMP	SAL	DEPTH	TEMP	SAL
0.	9.85	32.40	50.	9.95	32.48
3.	9.85	32.41	53.	9.95	32.48
4.	9.85	32.41	60.	9.96	32.49
8.	9.87	32.42	61.	9.96	32.49
9.	9.87	32.42	67.	9.98	32.51
15.	9.88	32.44	74.	9.98	32.52
16.	9.88	32.44	75.	9.98	32.52
23.	9.90	32.45	83.	9.98	32.53
28.	9.91	32.46	89.	9.98	32.54
31.	9.92	32.46	90.	9.98	32.54
39.	9.93	32.47	91.	9.98	32.55
40.	9.93	32.47	92.	9.98	32.55
45.	9.94	32.47	93.	9.97	32.56

Surface Salinity and Temperature Observations

(P-78-1)

SURFACE SALINITY AND TEMPERATURE OBSERVATIONS
CRUISE REFERENCE NUMBER 78- 1

DATE/TIME				SALINITY	TEMP	LONGITUDE
YR	MO	DY	GMT	0/00	C	WEST
78	1	6	1715	30.603	7.7	123- 0
78	1	6	2010	28.343	8.1	124-30
78	1	6	2250	29.877	8.8	125- 0
78	1	6	2325	32.077	8.9	125-33
78	1	7	115	32.649	8.9	126- 0
78	1	7	310	32.422	9.3	126-40
78	1	7	650	32.386	8.5	127-40
78	1	7	1010	32.513	8.4	128-40
78	1	7	1250	32.488	8.3	129-40
78	1	7	1530	32.492	8.4	130-40
78	1	7	1805	32.459	8.0	131-40
78	1	7	2055	32.492	8.1	132-40
78	1	7	2325	32.531	8.0	133-40
78	1	8	205	32.484	7.9	134-40
78	1	8	600	32.515	7.8	135-40
78	1	8	840	32.471	7.4	136-40
78	1	8	1120	32.568	7.4	137-40
78	1	8	1350	32.604	7.3	138-40
78	1	8	1630	32.720	6.5	139-40
78	1	8	1905	32.777	6.2	140-40
78	1	8	2145	32.741	6.1	141-40
78	1	9	105	32.767	5.9	142-40
78	1	9	315	32.790	6.0	143-40
78	1	10	0	32.781	5.7	ON STATION
78	1	11	0	32.777	5.6	ON STATION
78	1	12	0	32.779	5.5	ON STATION
78	1	13	0	32.774	5.7	ON STATION
78	1	14	0	32.770	5.7	ON STATION
78	1	15	0	32.771	5.8	ON STATION
78	1	16	0	32.771	5.8	ON STATION
78	1	17	0	32.772	5.7	ON STATION
78	1	18	0	32.770	5.7	ON STATION
78	1	19	0	32.769	5.7	ON STATION
78	1	20	0	32.767	5.7	ON STATION
78	1	21	0	32.782	5.6	ON STATION
78	1	22	0	32.782	5.6	ON STATION
78	1	23	0	32.766	5.6	ON STATION
78	1	24	0	32.759	5.6	ON STATION
78	1	25	0	32.769	5.6	ON STATION
78	1	26	0	32.765	5.6	ON STATION
78	1	27	0	32.763	5.6	ON STATION
78	1	28	0	32.746	5.6	ON STATION
78	1	29	0	32.760	5.6	ON STATION
78	1	30	0	32.757	5.6	ON STATION

SURFACE SALINITY AND TEMPERATURE OBSERVATIONS
CRUISE REFERENCE NUMBER 78- 1

DATE/TIME				SALINITY	TEMP	LONGITUDE
YR	MO	DY	GMT	0/00	C	WEST
78	1	31	0	32.755	5.6	ON STATION
78	2	1	0	32.754	5.7	ON STATION
78	2	2	0	32.754	5.8	ON STATION
78	2	3	0	32.758	5.7	ON STATION
78	2	4	0	32.751	5.7	ON STATION
78	2	5	0	32.761	5.7	ON STATION
78	2	6	0	32.760	5.7	ON STATION
78	2	7	0	32.761	5.7	ON STATION
78	2	8	0	32.766	5.6	ON STATION
78	2	9	0	32.769	5.5	ON STATION
78	2	10	0	32.786	5.5	ON STATION
78	2	11	0	32.776	5.5	ON STATION
78	2	12	0	32.779	5.5	ON STATION
78	2	12	2350	32.776	5.7	143-40
78	2	13	315	32.726	5.6	142-40
78	2	13	630	32.752	5.7	141-40
78	2	13	945	32.780	6.0	140-40
78	2	13	1225	32.780	6.3	139-40
78	2	13	1515	32.601	6.7	138-40
78	2	13	1910	32.610	7.2	137-40
78	2	13	2140	32.477	7.0	136-40
78	2	14	130	32.493	7.0	135-40
78	2	14	430	32.467	7.0	134-40
78	2	14	720	32.467	7.9	133-40
78	2	14	1020	32.587	8.1	132-40
78	2	14	1305	32.386	8.0	131-40
78	2	14	1555	32.550	8.1	130-40
78	2	14	1955	32.495	8.2	129-40
78	2	14	2345	32.473	8.6	128-40
78	2	15	345	32.487	8.6	127-40
78	2	15	745	32.505	9.3	126-40
78	2	15	1035	32.444	9.8	126- 0
78	2	15	1230	32.271	9.8	125-30
78	2	15	1530	30.350	9.4	125- 0
78	2	15	1740	29.730	9.1	124-30
78	2	15	1910	30.231	9.3	124- 0
78	2	15	2030	30.648	8.7	123-30

b DENOTES SALINITY SAMPLE TAKEN FROM A BUCKET. ALL OTHER SAMPLES TAKEN FROM THE SEAWATER LOOP

LIST OF OMISSIONS

Hydrographic Data:

Consec. #	Depth (m)	T	S	O_2	Notes 1	2	3	Comments
35	4182			*	*			

Notes (MacNeill, 1977):

1. The data is suspect because of a reversal of gradient by >.01 °/oo (salinity) or >.08 ml/ℓ (oxygen).
2. The data is deleted because of very irregular data values (usually a mis-tripping or leaking bottle if both oxygen and salinity are irregular).
3. The data is deleted because duplicate samples at a depth were not within .01 °/oo (salinity) or .08 ml/ℓ (oxygen).

STD Data:

Consecutive number	Comments
5	trace only to 700 m due to a winch malfunction.

Note: Consecutive numbers 27 to 32 and 44 to 49 are part of the MILE program and are not included in this report.

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